10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

~~Patent Literature Abstracts

File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2007/Jun(Updated 070926)
(c) 2007 JPO & JAPIO
File 350:Derwent WPIX 1963-2007/UD=200767
(c) 2007 The Thomson Corporation

Set	Items	Description
S1	563816	VIDEO? OR IMAGE()ANALYSIS
S2	1238771	OBJECT? ? OR SUBJECT? ? OR PERSON? ?
S3	1163755	COORDINATE OR COORDINATES OR AXIS? ?
S4	86877	(REFERENCE OR FIRST OR 1ST OR INITIAL OR ORIGINAL OR BASELINE OR X()Y OR X OR Y)(1W)S3 OR XREF?
S5	4109	S4(5N)(DETERMIN? OR IDENTIF? OR ASSIGN??? OR DESIGNAT??? OR SELECT???)
S6	23	TRAJECTORY(1N)(LIST? ? OR FILE? ? OR REGISTR? OR SCHEDULE?)
S7	1	S6(5N)(STOR??? OR RECORD??? OR ADD OR ADDED OR ADDING)
S8	242	S4(4N)(REPLAC? OR UPDAT? OR EXCHANG?)
S9	50210	(CURRENT OR PRESENT OR NEW OR SECOND OR 2ND OR SUBSEQUENT OR SUCCESSIVE OR FOLLOWING OR UPDATED)(1N)S3 OR XNEW?
S10	3353086	GREATER OR LARGER OR BIGGER OR MORE OR EQUAL
S11	5739277	PREDETERMIN? OR GIVEN OR SET OR PRESET OR PRESELECT? OR SPECIFIC OR SPECIFIED
S12	3452031	DISTANCE OR THRESHOLD OR AMOUNT OR VALUE
S13	1206251	ABSOLUTE()VALUE? ? OR ALGORITHM? ? OR EQUATION? ? OR FORMULA? ?
S14	485	AU=(COHEN, R? OR COHEN R? OR BRODSKY, T? OR BRODSKY T?)
S15	32	S14 AND S1
S16	23	S15 AND IC=H04N?
S17	57176	S1 AND S2
S18	84	S17 AND S5
S19	1	S18 AND S7
S20	0	S19 NOT S16
S21	1	S18 AND S6
S22	0	S21 NOT S16
S23	610	S17 AND S4
S24	198	S23 AND S9
S25	2	S24 AND S8
S26	1	S25 NOT S16
S27	65063	S10(3N)S11(3N)S12
S28	6	S24 AND S27
S29	5	S28 NOT S16
S30	23	S24 AND S13
S31	22	S30 NOT (S16 OR S29)
S32	14	S31 AND S12
S33	2922033	MOVE? OR MOVING OR MOTION OR WALK?
S34	62516	S33(3N)S2
S35	14994	S3(3N)(STOR??? OR RECORD??? OR ADD OR ADDED OR ADDING)
S36	267	S34 AND S35
S37	50	S36 AND S1
S38	23	S37 AND S12
S39	10	S38 AND S4
S40	7	S39 NOT (S16 OR S29 OR 32)

16/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016658729 - Drawing available
WPI ACC NO: 2007-373817/200735
Related WPI Acc No: 2002-681714; 2004-793819; 2006-087321; 2006-379495;

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2006-633599
XRPX Acc No: N2007-278879
Virtual space interaction method for mobile network, involves identifying information related to object to interact with software operated externally to mobile device to control game aspect and another device local to mobile device
Patent Assignee: EVRYX TECHNOLOGIES INC (EVRY-N)
Inventor: COHEN R H
Patent Family (2 patents, 115 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2007027738	A2	20070308	WO 2006US33811	A	20060829	200735 B
US 20070104348	A1	20070510	US 2000246295	P	20001106	200735 E
			US 2001317521	P	20010905	
			US 2001992942	A	20011105	
			US 2005712590	P	20050829	
			US 2005294971	A	20051205	
			US 2006510009	A	20060825	

Priority Applications (no., kind, date): US 2000246295 P 20001106; US 2001317521 P 20010905; US 2001992942 A 20011105; US 2005712590 P 20050829; US 2005294971 A 20051205; US 2006510009 A 20060825

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2007027738	A2	EN	16	2	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

US 20070104348	A1	EN			Related to Provisional US 2000246295 Related to Provisional US 2001317521 Continuation of application US 2001992942 Related to Provisional US 2005712590 C-I-P of application US 2005294971 Continuation of patent US 7016532

Inventor: COHEN R H
...NOVELTY - An image data such as video image of a real world object is electronically captured using a mobile device. The captured...

Class Codes
International Classification (+ Attributes)
IPC + Level Value Position Status Version
... H04N-0005/225 ...

... H04N-0007/14
... H04N-0005/225 ...

... H04N-0007/14

Original Publication Data by Authority

Inventor name & address:
Cohen, Ronald H ...

... COHEN, Ronald, H

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

16/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016608725 - Drawing available
WPI ACC NO: 2007-323662/200731
XRPX Acc No: N2007-238063
Intelligent video system for building management and automation, has video processing system that produces video -based information based on received images, and sub-systems that control resources of building based on video -based information
Patent Assignee: ACTIVEYE INC (ACTI-N)
Inventor: BRODSKY T ; LEE M; LIN Y; RAMSEY C C
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20070024708	A1	20070201	US 2005668448	P	20050405	200731 B
			US 2006397781	A	20060404	

Priority Applications (no., kind, date): US 2005668448 P 20050405; US 2006397781 A 20060404

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20070024708	A1	EN	9	6	Related to Provisional US 2005668448

Intelligent video system for building management and automation, has video processing system that produces video -based information based on received images, and sub-systems that control resources of building based on video -based information

Original Titles:
Intelligent video for building management and automation
Inventor: BRODSKY T ...

Alerting Abstract ...NOVELTY - The system (100) includes a video processing system (180) that receives images from one or more video sources (110), and produces video -based information from the received images. One or more building management systems or sub-systems (130-170) control the operation of the resources of a building based on the video based information. The images may be infrared images or X-ray images. The sub-systems...
...Intelligent video processing method; and Computer program of the intelligent video system...

...ADVANTAGE - Expands the use of video monitoring devices beyond security and access control systems. Applies video processing techniques to facilitate the management of buildings, and to automate a number of processes...

...DRAWINGS - The figure shows the schematic block diagram of the building management system that incorporates video analysis in a variety of sub-system applications...

...100 Intelligent video system...

...110 Video sources...

...180 Video processing system

Title Terms.../Index Terms/Additional Words: VIDEO ;

Class Codes
International Classification (+ Attributes)

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

IPC + Level Value Position Status Version
H04N-0007/18 ...

... H04N-0009/47
H04N-0007/18 ...

... H04N-0009/44

Original Publication Data by Authority

Inventor name & address:
... Brodsky, Tomas
Original Abstracts:
A video processing and analysis system is coupled to a building management and control system. The video processing system provides traffic, occupancy, and other information derived from video images of sections of the building and its environs to the building management and control...
Claims:
We claim:1. A system comprising:a video processing system that is configured to receive images from one or more video sources, and to produce therefrom video -based information, andone or more building management systems that are configured to control operation of one or more resources of a building based on the video -based information.

16/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016608724 - Drawing available
WPI ACC NO: 2007-323661/200731
XRPX Acc No: N2007-238062
Camera has relevant image detector that determines relevancy of each image based on characteristics associated with target objects of video monitoring application
Patent Assignee: ACTIVEYE INC (ACTI-N)
Inventor: BRODSKY T
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20070024707	A1	20070201	US 2005668446	P	20050405	200731 B
			US 2006397780	A	20060404	

Priority Applications (no., kind, date): US 2005668446 P 20050405; US 2006397780 A 20060404

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20070024707	A1	EN	10	4	Related to Provisional US 2005668446

...detector that determines relevancy of each image based on characteristics associated with target objects of video monitoring application

Original Titles:
Relevant image detection in a camera, recorder, or video streaming device
Inventor: BRODSKY T

Alerting Abstract ...NOVELTY - The camera includes a video capture element with several video images and a relevant image detector to receive the video images for determining relevancy of each image based on several characteristics associated with target objects of a video monitoring application. The image detector eliminates images that are

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determined as irrelevant to video monitoring application.... video streaming system; and video streaming method...

...ADVANTAGE - Effectively identifies the motion in a video image and reduces the amount of video processing to perform a task. Reduces the bandwidth requirements for video monitoring systems. The video monitoring systems are easily scaled to accommodate large and complex multi images...
...DESCRIPTION OF DRAWINGS - The figure shows a block diagram of video monitoring system.

Title Terms.../Index Terms/Additional Words: VIDEO ;

Class Codes
International Classification (+ Attributes)
IPC + Level Value Position Status Version
H04N-0007/18 ...
H04N-0007/18 ...

Original Publication Data by Authority

Inventor name & address:
Brodsky, Tomas ...
Original Abstracts:
The filtering tasks that are conventionally applied in a video monitoring application, to distinguish images that may be relevant to the application, are distributed to...

...devices. Source devices, such as cameras and playback devices, and near-source devices, such as video concentrators and streaming devices, are configured to include video processing tools that can be used to pre-filter the image data to identify frames...

...of frames that include image information that is likely to be relevant to the receiving video monitoring application. In this manner, the receiving processor need not spend time and resources processing...
Claims:
We claim:1. A camera that includes:a video capture elements that is configured to provide a plurality of video images,a relevant image detector that is configured to:receive the video images, anddetermine a relevancy of each image, based on one or more characteristics associated with target objects of a video monitoring application.

16/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016608723 - Drawing available
WPI ACC NO: 2007-323660/200731
XRPX Acc No: N2007-238061
Size calibration and mapping in overhead camera view used in video surveillance systems, involves determining focal distance of camera from plane based on determined distance between first and second lines and first and second image-widths
Patent Assignee: ACTIVEYE INC (ACTI-N)
Inventor: BRODSKY T ; LEE M; LIN Y
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20070024704	A1	20070201	US 2005702548	P	20050726	200731 B
			US 2006329461	A	20060111	

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Priority Applications (no., kind, date): US 2005702548 P 20050726; US 2006329461 A 20060111

Patent Details
Number Kind Lan Pg Dwg Filing Notes
US 20070024704 A1 EN 9 6 Related to Provisional US 2005702548
Size calibration and mapping in overhead camera view used in video surveillance systems, involves determining focal distance of camera from plane based on determined distance between...
Inventor: BRODSKY T ...

Alerting Abstract ...USE - Used in video surveillance systems, and video content analysis system that includes cameras situated to provide a downward-looking view such as...

Title Terms.../Index Terms/Additional Words: VIDEO ;

Class Codes
International Classification (+ Attributes)
IPC + Level Value Position Status Version
H04N-0007/18 ...

... H04N-0009/47
H04N-0007/18 ...

... H04N-0009/44

Original Publication Data by Authority

Inventor name & address:
... Brodsky, Tomas

16/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016247960 - Drawing available
WPI ACC NO: 2006-779606/200679
XRPX Acc No: N2006-602520
Interface kernel for video monitoring system, has application program interface which accepts commands from application program to control video capture and video recording
Patent Assignee: ACTIVEYE INC (ACTI-N)
Inventor: BRODSKY T ; LEE M; LIN Y; RAMSEY C C
Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 20060225120	A1	20061005	US 2005668447	P	20050404	200679 B
			US 2006397776	A	20060404	

Priority Applications (no., kind, date): US 2005668447 P 20050404; US 2006397776 A 20060404

Patent Details
Number Kind Lan Pg Dwg Filing Notes
US 20060225120 A1 EN 5 1 Related to Provisional US 2005668447
Interface kernel for video monitoring system, has application program interface which accepts commands from application program to control video capture and video recording

Original Titles:
Video system interface kernel

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Inventor: BRODSKY T ...

Alerting Abstract ...NOVELTY - The interface kernel comprises a video capture module to capture video from camera, video recording module to record the images, and video playback module to playback the images. An event notification module provides notifications to external notification ...

...on the images. An application program interface accepts commands from application program to control the video capture, recording and playback modules, and event notification module....interface kernel execution program; and video monitoring system...

...USE - For video monitoring system for monitoring transaction devices such as automated teller machines (ATMs), cash registers and...

...ADVANTAGE - The task of creating a video application program is simplified and the need to design custom design modules to provide basic and common video functions, is eliminated. The video monitoring system can be assembled and customized quickly, with minimal software development effort...

Title Terms.../Index Terms/Additional Words: VIDEO ;

Class Codes
International Classification (+ Attributes)
IPC + Level Value Position Status Version
H04N-0007/173 ...

Original Publication Data by Authority

Inventor name & address:
... Brodsky, Tomas
Original Abstracts:
A video interface kernel with a defined application program interface includes each of a plurality of core functions for interfacing with video equipment and video processing subsystems. The core functions include such functions as video capture and video output, video recording and playback, and event notification. Optional embodiments include video analysis functions and/or interfaces to analysis subsystems, as well as interfaces to point-of-sale terminals, access control systems, and location tracking systems. An intelligent video management module facilitates managing the interactions among the other modules of the kernel, further simplifying...
Claims:
We claim:1. An interface kernel comprising:a video capture module that is configured to receive images from one or more video sources,a video recording module that is configured to record images to one or more storage devices,a video playback module that is configured to playback images from the one or more storage devices...

...that is configured to accept commands from an application program to control each of the video capture, video recording, video playback, and event notification modules.

16/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0015190966 - Drawing available
WPI ACC NO: 2005-540559/200555
XRPX Acc No: N2005-442675

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Surveillance method for intruder in protected area, involves identifying reportable and non-reportable objects with in acquired images accordingly when object is located beyond and within preset blocking zone of image
Patent Assignee: BRODSKY T (BROD-I); LIN Y (LINY-I)
Inventor: BRODSKY T ; LIN Y
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050157169	A1	20050721	US 2004537818	P	20040120	200555 B
			US 2004969720	A	20041020	

Priority Applications (no., kind, date): US 2004537818 P 20040120; US 2004969720 A 20041020

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050157169	A1	EN	8	4	Related to Provisional US 2004537818

Original Titles:
Object blocking zones to reduce false alarms in video surveillance systems
Inventor: BRODSKY T ...

Class Codes
International Classification (Main): H04N-007/18

Original Publication Data by Authority

Inventor name & address:
Brodsky, Tomas ...
Original Abstracts:
...leaves each of the zones at least once. The blocking zones do not mask the video images, and thus a complete record of activity is available for forensic purposes.

16/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2007 The Thomson Corporation. All rts. reserv.

0015033767 - Drawing available
WPI ACC NO: 2005-381758/200539
Related WPI Acc No: 2005-100954; 2006-647012
XRPX Acc No: N2005-309111
Video frame processing method, involves providing current frame that is divided into blocks, and performing overlapped block motion compensation on each block, where blocks have two differently sized blocks
Patent Assignee: COHEN R A (COHE-I); RENSSELAER POLYTECHNIC INST (RENS-N) ; WOODS J W (WOOD-I); WU Y (WUYY-I)
Inventor: COHEN R ; COHEN R A ; WOODS J; WOODS J W; WU Y; CHEN P
Patent Family (7 patents, 107 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050078755	A1	20050414	US 2003477183	P	20030610	200539 B
			US 2003512120	P	20031017	
			US 2004864833	A	20040609	
			US 2004965237	A	20041014	
WO 2005038603	A2	20050428	WO 2004US33876	A	20041015	200539 E
EP 1685716	A2	20060802	EP 2004795085	A	20041015	200650 E
			WO 2004US33876	A	20041015	
CN 1806440	A	20060719	CN 200480016154	A	20040609	200675 E
KR 2006096016	A	20060905	WO 2004US33876	A	20041015	200705 E
			KR 2006707040	A	20060412	
JP 2007509542	W	20070412	WO 2004US33876	A	20041015	200726 E

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			JP 2006535646	A	20041015			
CN 1926868	A	20070307	CN 200480036791	A	20041015	200752	E	

Priority Applications (no., kind, date): US 2003477183 P 20030610; US 2003512120 P 20031017; US 2004864833 A 20040609; US 2004965237 A 20041014

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050078755	A1	EN	52	25	Related to Provisional US 2003477183 Related to Provisional US 2003512120 C-I-P of application US 2004864833
WO 2005038603	A2	EN			

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

EP 1685716	A2	EN			PCT Application WO 2004US33876 Based on OPI patent WO 2005038603

Regional Designated States,Original: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

KR 2006096016	A	KO			PCT Application WO 2004US33876 Based on OPI patent WO 2005038603
JP 2007509542	W	JA	54		PCT Application WO 2004US33876 Based on OPI patent WO 2005038603

Video frame processing method, involves providing current frame that is divided into blocks, and performing overlapped...

Original Titles:
UBERLAPPUNGS-BLOCKBEWEGUNGS-KOMPENSATION FUR BLOCKE VARIABLER GROSSE IM KONTEXT VON SKALIERBAREN MCTF- VIDEOCODIERERN
...

...OVERLAPPED BLOCK MOTION COMPENSATION FOR VARIABLE SIZE BLOCKS IN THE CONTEXT OF MCTF SCALABLE VIDEO CODERS...

...A BLOCS RECOUVRANTS DESTINEE A DES BLOCS DE TAILLE VARIABLE DANS LE CONTEXTE DE CODEURS VIDEO MCTF ECHELONNABLES...

...Overlapped block motion compensation for variable size blocks in the context of MCTF scalable video coders...

...OVERLAPPED BLOCK MOTION COMPENSATION FOR VARIABLE SIZE BLOCKS IN THE CONTEXT OF MCTF SCALABLE VIDEO CODERS...

...A BLOCS RECOUVRANTS DESTINEE A DES BLOCS DE TAILLE VARIABLE DANS LE CONTEXTE DE CODEURS VIDEO MCTF ECHELONNABLES
Inventor: COHEN R ...
... COHEN R A

Alerting Abstract DESCRIPTION - An INDEPENDENT CLAIM is also included for a computer program product for performing video frames processing method
...

...USE - Used for processing a video frame...

...boundaries that are provided by variable size block matching (VSBM) in the context of scalable video coders...

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...drawing shows a flow chart depicting utilizing I-BLOCKs in temporal high frames performed in video frames processing method.

Title Terms/Index Terms/Additional Words: VIDEO ;

Class Codes
International Classification (+ Attributes)
IPC + Level Value Position Status Version
H04N-0007/12 ...

... H04N-0007/18 ...
... H04N-0007/18 ...

... H04N-0007/18 ...

... H04N-0007/24 ...

... H04N-0007/26 ...

... H04N-0007/26 ...

... H04N-0007/32
... H04N-0007/12 ...

... H04N-0007/18 ...

... H04N-0007/18 ...

... H04N-0007/26 ...

... H04N-0007/32 ...

... H04N-0007/18

Original Publication Data by Authority

Inventor name & address:
... COHEN R A ...

... COHEN R ...

... COHEN R A ...

... Cohen, Robert A ...

... COHEN, Robert, A
Original Abstracts:
A method, computer program product, and computer system for processing video frames. A current frame is divided into M blocks that include at least two differently...

...A method, computer program product, and computer system for processing video frames. A current frame is divided into M blocks that include at least two differently...
...A method, computer program product, and computer system for processing video frames. A current frame is divided into M blocks that include at least two differently...

...concerne un procede, un produit logiciel et un systeme informatique destines au traitement de trames video . La trame courante est divisee en M blocs qui comprennent au moins deux blocs de...
Claims:
What is claimed is:1. A method for processing video frames, said

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method comprising the steps of:providing a current frame divided into blocks that...

16/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0013833771 - Drawing available
WPI ACC NO: 2004-010185/200401
XRPX Acc No: N2004-007338
Motion detection method involves calculating scaled difference for each pixel of current image selected from senses of multiple images, using predetermined formula
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: BRODSKY T
Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20030194110	A1	20031016	US 2002123330	A	20020416	200401	B
US 7177445	B2	20070213	US 2002123330	A	20020416	200714	E

Priority Applications (no., kind, date): US 2002123330 A 20020416

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030194110	A1	EN	13	7	

Inventor: BRODSKY T

Alerting Abstract ... video camera; video signal; motion detector; and security system...

...USE - For use in video motion detection and object tracking systems

Class Codes
International Classification (+ Attributes)
IPC + Level Value Position Status Version
... H04N-0007/18 ...

... H04N-0009/64
... H04N-0007/18 ...

... H04N-0009/64

Original Publication Data by Authority

Inventor name & address:
Brodsky, Tomas ...
... Brodsky, Tomas

^ 16/3,K/9 (Item 9 from file: 350) (Note: Current app)
DIALOG(R)File 350:Derwent WPIX
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0013821151 - Drawing available
WPI ACC NO: 2003-777438/200373
XRPX Acc No: N2003-622980
Trajectory storing for tracked object in video sequence involves replacing reference coordinates of identified object in one video frame with reference coordinates of object in other video frame if

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predetermined condition is satisfied
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: BRODSKY T ; COHEN R A
Patent Family (7 patents, 101 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20030126622	A1	20030703	US 200129730	A	20011227	200373	B
WO 2003060548	A2	20030724	WO 2002IB5377	A	20021210	200373	E
AU 2002353331	A1	20030730	AU 2002353331	A	20021210	200421	E
EP 1461636	A2	20040929	EP 2002788352	A	20021210	200463	E
			WO 2002IB5377	A	20021210		
KR 2004068987	A	20040802	KR 2004710114	A	20040625	200480	E
JP 2005515529	W	20050526	WO 2002IB5377	A	20021210	200535	E
			JP 2003560590	A	20021210		
CN 1613017	A	20050504	CN 2002826107	A	20021210	200558	E

Priority Applications (no., kind, date): US 200129730 A 20011227

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030126622	A1	EN	12	5	
WO 2003060548	A2	EN			

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
Regional Designated States,Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

AU 2002353331	A1	EN		Based on OPI patent WO 2003060548
EP 1461636	A2	EN		PCT Application WO 2002IB5377
				Based on OPI patent WO 2003060548

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

JP 2005515529	W	JA	16		PCT Application WO 2002IB5377
					Based on OPI patent WO 2003060548

Trajectory storing for tracked object in video sequence involves replacing reference coordinates of identified object in one video frame with reference coordinates of object in other video frame if predetermined condition is satisfied

Original Titles:
VERFAHREN ZUR EFFIZIENTEN SPEICHERUNG VON FLUGBAHNEN VERFOLGTER GEGENSTANDE IN EINEM VIDEO
...

...METHOD FOR EFFICIENTLY STORING THE TRAJECTORY OF TRACKED OBJECTS IN VIDEO
...

...Method for efficiently storing the trajectory of tracked objects in video
...

...METHOD FOR EFFICIENTLY STORING THE TRAJECTORY OF TRACKED OBJECTS IN VIDEO
Inventor: BRODSKY T ...
... COHEN R A

Alerting Abstract ...NOVELTY - The reference coordinates of identified objects in two video frames (105) are determined. The reference coordinates of the object in the second video frame are stored in an object trajectory list. The stored reference coordinates replace the

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

reference coordinates of the object in the first video frame if the difference of the reference coordinates is greater than or equal to a...
...or equal to a predetermined threshold value. An INDEPENDENT CLAIM is also included for a video object trajectory storing system...

...USE - For tracked object in video sequence. Applicable in a video surveillance security system. Also for use in tracking a particular person in e.g. retail...

...105 Video frame

Title Terms.../Index Terms/Additional Words: VIDEO ;

Class Codes
...International Classification (Main): H04N-007/173 ...

... H04N-007/24
(Additional/Secondary): H04N-011/00 ...

... H04N-005/445 ...

... H04N-005/91 ...

... H04N-007/00 ...
... H04N-007/16 ...

... H04N-009/76

Original Publication Data by Authority

Inventor name & address:
BRODSKY T ...

... COHEN R A ...

... BRODSKY T ...

... COHEN R A ...

... COHEN, Robert, A ...

... BRODSKY, Tomas ...

... Cohen, Robert A ...
... Brodsky, Tomas ...

... COHEN, Robert, A ...

... BRODSKY, Tomas
Original Abstracts:
...system for enhanced storage of trajectories reduces storage requirements over conventional methods and systems. A video content analysis module automatically identifies objects in a video frame, and determines the (xi,yi) coordinates of each object i. The reference coordinates for each for object i...

...xref1,yrefi) to the object's current position. This process is repeated for all subsequent video frames. The resulting compact trajectory lists can then be written to memory or disk while they are being generated...

...system for enhanced storage of trajectories reduces storage requirements over conventional methods and systems. A video content analysis module automatically identifies objects in a video frame, and determines the

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

(xi,yi) coordinates of each object i. The reference coordinates for each for object i, (xrefi,yrefi) are set to...
...xref1,yrefi) to the object's current position. This process is repeated for all subsequent video frames. The resulting compact trajectory lists can then be written to memory or disk while...

.....system for enhanced storage of trajectories reduces storage requirements over conventional methods and systems. A video content analysis module automatically identifies objects in a video frame, and determines the (xi,yi) coordinates of each object i. The reference coordinates for...

...xnewi,ynewi) are less than a given distance from the reference coordinates, that is if | (xnewi ,ynewi) - (xref1,yrefi)|2 < e, then the current coordinates are ignored. However, if the object moves more than the distance e, the current coordinates...

...xref1,yrefi) to the object's current position. This process is repeated for all subsequent video frames. The resulting compact trajectory lists can then be written to memory or disk while...

... Cette invention concerne un procede...

...de stockage par rapport aux procedes et systemes conventionnels. Un module d'analyse de contenu video identifie automatiquement les objets dans une image video et determine les coordonnees (xi, yi) de chacun des objets i. Les coordonnees de reference...

...sont inferieures a une distance donnee des coordonnees de reference, autrement dit si [(xnewi, ynewi) - (xrefi , yrefi)]2 < (is in), les coordonnees en cours sont ignorees. Toutefois, si l'objet se deplace d'une distance superieure a (is in...

...sur la position actuelle de l'objet. Ce procede est repete pour toutes les images video suivantes. Les listes de trajectoires compactes ainsi obtenues peuvent etre enregistrees dans une memoire ou
Claims:
...is claimed is:1. A method for storing a trajectory of tracked objects in a video , comprising the steps of:(a) identifying objects in a first video frame;(b) determining first reference coordinates (xrefi,yrefi) for each of said objects identified in step (a) in the first video frame;(c) storing the first reference coordinates (xrefi,yrefi);(d) identifying said objects in a second video frame;(e) determining current reference coordinates (xnewiynewi) of said objects in said second video frame; and(f) storing the current reference coordinates of a particular object in an object trajectory list and replacing the first reference coordinates (xrefi,yrefi) with the current reference coordinates (xnewiynewi) if the following condition for the particular object is satisfied:(parallel to)(xnewi,ynewi)-(xrefi,yrefi)(parallel to)2<=epsilon, wherein epsilon...

...predetermined threshold amount, andretaining the first reference coordinates (xrefi,yrefi) for comparison with subsequent video frames when said condition is not satisfied.

16/3,K/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0013585083 - Drawing available
WPI ACC NO: 2003-679825/200364
XRPX Acc No: N2003-542797

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Data transmission method for computer networks, involves receiving multimedia stream in moving picture experts group, and adding error protection units through electronic medium

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)

Inventor: COHEN R ; COHEN R A

Patent Family (8 patents, 101 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2003069916	A1	20030821	WO 2003IB541	A	20030212	200364	B
US 20030156645	A1	20030821	US 200277059	A	20020215	200364	E
AU 2003202789	A1	20030904	AU 2003202789	A	20030212	200428	E
EP 1479244	A1	20041124	EP 2003701700	A	20030212	200477	E
			WO 2003IB541	A	20030212		
KR 2004085181	A	20041007	KR 2004712373	A	20040811	200512	E
JP 2005518162	W	20050616	JP 2003568898	A	20030212	200540	E
			WO 2003IB541	A	20030212		
US 6952450	B2	20051004	US 200277059	A	20020215	200565	E
CN 1633813	A	20050629	CN 2003803979	A	20030212	200574	E

Priority Applications (no., kind, date): US 200277059 A 20020215

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2003069916	A1	EN	13	3	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

AU 2003202789	A1	EN		Based on OPI patent WO 2003069916
EP 1479244	A1	EN		PCT Application WO 2003IB541
				Based on OPI patent WO 2003069916

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

JP 2005518162	W	JA	10	PCT Application WO 2003IB541
				Based on OPI patent WO 2003069916

Original Titles:

UNGLEICHER FEHLERSCHUTZ VON VIDEO BASIEREND AUF BEWEGUNGSVEKTORMERKMALEN ...

...UNEQUAL ERROR PROTECTION OF VIDEO BASED ON MOTION VECTOR CHARACTERISTICS...

...PROTECTION DE VIDEO CONTRE LES ERREURS D'INEGALITE, BASEE SUR DES CARACTERISTIQUES DE VECTEURS DE MOUVEMENT...

...Unequal error protection of video based on motion vector characteristics...

...Unequal error protection of video based on motion vector characteristics...

...UNEQUAL ERROR PROTECTION OF VIDEO BASED ON MOTION VECTOR CHARACTERISTICS...

...PROTECTION DE VIDEO CONTRE LES ERREURS D'INEGALITE, BASEE SUR DES CARACTERISTIQUES DE VECTEURS DE MOUVEMENT

Inventor: COHEN R ...

... COHEN R A

Alerting Abstract ...ADVANTAGE - The error protection units added to

different parts of the video stream make the bit stream more robust for transmission over networks. The error protection methods ignore the data contained into the data streams and also increase the overhead for coding non-important portions of the video streams.
...

...100 Video encoder
...

...130 Video stream partitioner

Class Codes
...International Classification (Main): H04N-007/12 ...

... H04N-007/18 ...

... H04N-007/24 ...
... H04N-007/36
(Additional/Secondary): H04N-007/26 ...

... H04N-007/30 ...

... H04N-007/300 ...

... H04N-007/32 ...

... H04N-007/64

Original Publication Data by Authority

Inventor name & address:
COHEN R A ...

... COHEN, Robert, A ...

... Cohen, Robert A ...

... Cohen, Robert ...
... COHEN, Robert, A

16/3,K/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0013484350 - Drawing available
WPI ACC NO: 2003-576464/200354
XRPX Acc No: N2003-458220
Encoded video signal transmission system in internet applications, assigns variable modulation rate to each video stream, based on predetermined priority
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: COHEN R A ; KRISHNAMACHARI S; MEEHAN J P
Patent Family (6 patents, 34 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20030072376	A1	20030417	US 2001976338	A	20011012	200354	B
WO 2003034739	A1	20030424	WO 2002IB4050	A	20021001	200354	E
EP 1438859	A1	20040721	EP 2002801446	A	20021001	200447	E
			WO 2002IB4050	A	20021001		
KR 2004054708	A	20040625	KR 2004705228	A	20040409	200470	E
JP 2005506773	W	20050303	WO 2002IB4050	A	20021001	200517	E

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			JP 2003537325	A	20021001			
CN 1568620	A	20050119	CN 2002820009	A	20021001	200572	E	

Priority Applications (no., kind, date): US 2001976338 A 20011012

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030072376	A1	EN	7	2	
WO 2003034739	A1	EN			

National Designated States,Original: CN JP KR
Regional Designated States,Original: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

EP 1438859	A1	EN			PCT Application WO 2002IB4050 Based on OPI patent WO 2003034739
JP 2005506773	W	JA	27		PCT Application WO 2002IB4050 Based on OPI patent WO 2003034739

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Encoded video signal transmission system in internet applications, assigns variable modulation rate to each video stream, based on predetermined priority

Original Titles:
...TRANSMISSION OF VIDEO USING VARIABLE RATE MODULATION...
...TRANSMISSION DE LA VIDEO UTILISANT LA MODULATION A DEBIT VARIABLE...

...Transmission of video using variable rate modulation...

...TRANSMISSION OF VIDEO USING VARIABLE RATE MODULATION...

...TRANSMISSION DE LA VIDEO UTILISANT LA MODULATION A DEBIT VARIABLE
Inventor: COHEN R A ...

Alerting Abstract ...NOVELTY - A stream positioning system (15) partitions encoded video data into multiple streams. A stream prioritization system (14) determines a priority for each stream of encoded video data. A scheme selection system (16) assigns a variable modulation rate to each stream based...
... video encoder; computer program product for encoded video ; video encoding method; and video decoder.
...

...USE - For transmitting encoded video signals in wireless e.g. cellular and wired e. g . internet networks...

...ADVANTAGE - Improves the robustness of encoded video transmission.
...

...DESCRIPTION OF DRAWINGS - The figure shows the block diagram of video transmitter and receiver.

Technology Focus
INDUSTRIAL STANDARDS - The video stream are encoded using MPEG-2, MPEG-4, H.261, H.263 and H.26L...

Title Terms.../Index Terms/Additional Words: VIDEO ;

Class Codes
International Classification (Main): H04N-007/12 ...

... H04N-007/24 ...

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Related WPI Acc No: 2003-439913; 2003-439921; 2003-456734; 2003-467119; 2003-479987; 2003-479988; 2003-480064
XRPX Acc No: N2003-363205
Person-of-interest monitoring method for computer vision based elderly care monitoring system, involves informing third party about detected event and behavior
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: BRODSKY T ; COHEN-SOLAL E; DAGTAS S; GUTTA S; LEE M; LIN Y; PHILOMIN V; STRUBBE H; TRAJKOVIC M
Patent Family (6 patents, 28 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20030058111	A1	20030327	US 2001325399	P	20010927	200343	B
			US 2002189272	A	20020703		
WO 2003030550	A1	20030410	WO 2002IB3717	A	20020911	200343	E
EP 1433326	A1	20040630	EP 2002765217	A	20020911	200443	E
			WO 2002IB3717	A	20020911		
KR 2004037145	A	20040504	KR 2004704440	A	20040326	200457	E
JP 2005505209	W	20050217	WO 2002IB3717	A	20020911	200513	E
			JP 2003533612	A	20020911		
CN 1561640	A	20050105	CN 2002819058	A	20020911	200525	E

Priority Applications (no., kind, date): US 2002165089 A 20020607; US 2001325399 P 20010927; US 2002189272 A 20020703

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030058111	A1	EN	13	5	Related to Provisional US 2001325399
WO 2003030550	A1	EN			

National Designated States,Original: CN JP KR
Regional Designated States,Original: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
EP 1433326 A1 EN PCT Application WO 2002IB3717
Based on OPI patent WO 2003030550
Regional Designated States,Original: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR
JP 2005505209 W JA 24 PCT Application WO 2002IB3717
Based on OPI patent WO 2003030550

Original Titles:
...INSTALLATION OPTIMALE DE PLUSIEURS CAMERAS POUR LA SURVEILLANCE VIDEO INFORMATIQUE...

...INSTALLATION OPTIMALE DE PLUSIEURS CAMERAS POUR LA SURVEILLANCE VIDEO INFORMATIQUE
Inventor: BRODSKY T ...

Class Codes
...International Classification (Main): H04N-005/247 ...

... H04N-007/18
... (Additional/Secondary): H04N-005/225 ...

... H04N-005/232

Original Publication Data by Authority

Inventor name & address:
... Brodsky, Tomas

16/3,K/15 (Item 15 from file: 350)
DIALOG(R)File 350:Derwent WPIX

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

0013330162 - Drawing available
WPI ACC NO: 2003-417551/200339
XRPX Acc No: N2003-332962
Video data analyzing method for security systems, involves multiplexing video signal such that video of multiple scenes are distributed in single video stream
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: BRODSKY T ; COHEN-SOLAL E; GUTTA S; GUTTA S V R; LYONS D; LYONS D M
Patent Family (8 patents, 35 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20030031343	A1	20030213	US 2001928795	A	20010813	200339	B
WO 2003017220	A1	20030227	WO 2002IB3148	A	20020723	200340	E
EP 1419490	A1	20040519	EP 2002755432	A	20020723	200433	E
			WO 2002IB3148	A	20020723		
KR 2004024621	A	20040320	KR 2004702133	A	20040212	200445	E
JP 2005500771	W	20050106	WO 2002IB3148	A	20020723	200505	E
			JP 2003522052	A	20020723		
CN 1541377	A	20041027	CN 2002815782	A	20020723	200512	E
TW 223206	B1	20041101	TW 2002118016	A	20020809	200532	E
US 6985603	B2	20060110	US 2001928795	A	20010813	200604	E

Priority Applications (no., kind, date): US 2001928795 A 20010813

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030031343	A1	EN	7	4	
WO 2003017220	A1	EN			

National Designated States,Original: CN JP KR
Regional Designated States,Original: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

EP 1419490	A1	EN			PCT Application WO 2002IB3148 Based on OPI patent WO 2003017220

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

JP 2005500771	W	JA	22		PCT Application WO 2002IB3148 Based on OPI patent WO 2003017220
TW 223206	B1	ZH			

Video data analyzing method for security systems, involves multiplexing video signal such that video of multiple scenes are distributed in single video stream

Original Titles:
...METHOD AND APPARATUS FOR EXTENDING VIDEO CONTENT ANALYSIS TO MULTIPLE CHANNELS...

...PROCEDE ET APPAREIL DESTINE A ETENDRE L'ANALYSE DE CONTENU VIDEO A DES CANAUX MULTIPLES...

...Method and apparatus for extending video content analysis to multiple channels...

...Method and apparatus for extending video content analysis to multiple channels...

...METHOD AND APPARATUS FOR EXTENDING VIDEO CONTENT ANALYSIS TO MULTIPLE CHANNELS...

...PROCEDE ET APPAREIL DESTINE A ETENDRE L'ANALYSE DE CONTENU VIDEO A DES CANAUX MULTIPLES

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

of the multiple channels and appropriately analyzing the spatially multiplexed video signal. The resulting system may be lower in cost that present systems and permit the system to work with ancillary equipment such as video recorders. The system also preserves the real-time information inherent in the multiple source signals...

...A video content analysis system extends content analysis capability of one system to multiple channels by providing for the spatial multiplexing of the multiple channels and appropriately analyzing the spatially multiplexed video signal. The resulting system may be lower in cost that present systems and permit the system to work with ancillary equipment such as video recorders. The system also preserves the real-time information inherent in the multiple source signals.

...

...L'invention concerne un systeme d'analyse de contenu video etendant la capacite d'analyse de contenu d'un systeme a des canaux multiples en realisant le multiplexage de canaux multiples et l' analyse appropriee du signal video multiplexe spatialement. Le systeme qui en resulte est moins couteux que les systemes existants et peut fonctionner avec un equipement auxiliaire tel que des magnetoscopes. Ce systeme maintient egalement les informations en temps reel inherentes aux signaux sources multiples.
Claims:
What is claimed is:1. A method of analyzing content in video data, comprising the steps of:multiplexing said video data such that video of multiple scenes are distributed in a single video stream, at least part of each of said video data being apportioned to a respective part of a moving image defined by a resulting multiplexed moving image;analyzing content of said multiplexed video image such that data in others of said each of said video data is ignored to produce an analysis particular to one of said multiple scenes...

...What is claimed is:1. A method of analyzing content in video data, comprising the acts of:spatially multiplexing said video data such that every frame of video of multiple scenes is spatially distributed in a single composite video stream, at least part of each of said video data being apportioned to a respective part of a moving image defined by a resulting multiplexed moving image; andperforming computerized operations on the content of said multiplexed video image such that data in others of said each of said video data is ignored to produce an analysis particular to one of said multiple scenes.

16/3,K/16 (Item 16 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0013117922 - Drawing available
WPI ACC NO: 2003-199622/200319
Related WPI Acc No: 2002-565969
XRPX Acc No: N2003-158829
Security monitoring system for residential building, outputs alarm when computed trajectory does not match with one of known trajectories
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: BRODSKY T ; GUTTA S
Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20020171736	A1	20021121	US 2000734821	A	20001212	200319	B
			US 2002194128	A	20020711		
US 6593852	B2	20030715	US 2002194128	A	20020711	200348	E

Priority Applications (no., kind, date): US 2000734821 A 20001212; US

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

2002194128 A 20020711

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020171736	A1	EN	7	2	Continuation of application US 2000734821
					Continuation of patent US 6441734

Inventor: BRODSKY T ...

Class Codes
...International Classification (Main): H04N-007/18

Original Publication Data by Authority

Inventor name & address:
... Brodsky, Tomas ...

... Brodsky, Tomas
Original Abstracts:
...alarm signal if the trajectory does not match one of the known trajectories. Preferably a video camera is used in each of an entrance, exit, and one or more rooms of the structure and the recorder records video segments of the path of the individual inside and/or outside the structure. Preferably the system also includes: a...

16/3,K/17 (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2007 The Thomson Corporation. All rts. reserv.

0013117503 - Drawing available
WPI ACC NO: 2003-199198/200319
XRPX Acc No: N2003-158416
Three-dimensional image processing method for 3D-TV device, involves applying transformations to each foreground and background objects obtained by segmenting input image, to derive output image
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: BRODSKY T ; LEE M; TRAJKOVIC M; WEINSHALL D; LEE M -
Patent Family (11 patents, 24 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20020167512	A1	20021114	US 2001851445	A	20010508	200319	B
WO 2002091754	A1	20021114	WO 2002IB1491	A	20020424	200319	E
KR 2003019559	A	20030306	KR 2003700268	A	20030108	200345	E
EP 1393581	A1	20040303	EP 2002769175	A	20020424	200417	E
			WO 2002IB1491	A	20020424		
CN 1462561	A	20031217	CN 2002801575	A	20020424	200420	E
JP 2004526266	W	20040826	JP 2002588087	A	20020424	200456	E
			WO 2002IB1491	A	20020424		
US 6965379	B2	20051115	US 2001851445	A	20010508	200575	E
EP 1393581	B1	20060222	EP 2002769175	A	20020424	200615	E
			WO 2002IB1491	A	20020424		
DE 60209365	E	20060427	DE 60209365	A	20020424	200629	E
			EP 2002769175	A	20020424		
			WO 2002IB1491	A	20020424		
CN 1241419	C	20060208	CN 2002801575	A	20020424	200656	E
DE 60209365	T2	20061005	DE 60209365	A	20020424	200665	E
			EP 2002769175	A	20020424		
			WO 2002IB1491	A	20020424		

Priority Applications (no., kind, date): US 2001851445 A 20010508

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020167512	A1	EN	19	13	
WO 2002091754	A1	EN			
National Designated States,Original: CN JP KR					
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR					
EP 1393581	A1	EN			PCT Application WO 2002IB1491 Based on OPI patent WO 2002091754
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					
JP 2004526266	W	JA	40		PCT Application WO 2002IB1491 Based on OPI patent WO 2002091754
EP 1393581	B1	EN			PCT Application WO 2002IB1491 Based on OPI patent WO 2002091754
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					
DE 60209365	E	DE			Application EP 2002769175 PCT Application WO 2002IB1491 Based on OPI patent EP 1393581 Based on OPI patent WO 2002091754
DE 60209365	T2	DE			Application EP 2002769175 PCT Application WO 2002IB1491 Based on OPI patent EP 1393581 Based on OPI patent WO 2002091754

Original Titles:
...N-view synthesis from monocular video of certain broadcast and stored mass media content...

...N-view synthesis from monocular video of certain broadcast and stored mass media content...
Inventor: BRODSKY T ...

Alerting Abstract ...NOVELTY - Foreground and background objects are segmented from a monocular video input image, and respective transformations are applied to each output image of the two objects...
...DESCRIPTION OF DRAWINGS - The figure shows the flowchart explaining the 3D video image processing procedure.

Class Codes
...International Classification (Main): H04N-013/00
International Classification (+ Attributes)
IPC + Level Value Position Status Version
... H04N-0013/00 ...

... H04N-0013/00 ...

... H04N-0007/26 ...

... H04N-0013/00
... H04N-0013/00 ...

... H04N-0013/00 ...

... H04N-0007/26

Original Publication Data by Authority

Inventor name & address:
... BRODSKY T ... BRODSKY T ... BRODSKY T ... BRODSKY, Tomas ... BRODSKY, Tomas... Brodsky, Tomas ...Brodsky, Tomas...BRODSKY, Tomas
Claims:
...Verwendung in einem a Datenverarbeitungsgerat, wobei das Verfahren

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

umfasst:- Den Erhalt von mindestens einem monokularen Videoeingabebild (Ik);- die Segmentierung (201, 202) von mindestens einem Vordergrundobjekt und mindestens einem Hintergrundobjekt des Eingabebilds...

...for use on a data processing device, the method comprising:- receiving at least one monocular video input image (Ik);- segmenting (201,202) at least one foreground object and at least one...traitement de donnees, le procede comprenant:- la reception d'au moins une image d'entree video monoculaire (Ik);- la segmentation (201, 202) d'au moins un objet de premier plan est...for use on a data processing device, the method comprisingreceiving at least one monocular video input image;segmenting at least one foreground object from the input image;applying at least o... on a data processing device, the method comprising the acts of:receiving at least one monocular video input image Ik;segmenting at least one foreground object from the input image Ik...
...the input image further comprises:applying a homography transformation Hk to the at least one monocular video input image Ik to create at least one transformed image Jk;combining the at l...

16/3,K/18 (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0013116310 - Drawing available
WPI ACC NO: 2003-197985/200319
XRPX Acc No: N2003-157261
Event identification and detection system for warehouse, has controller to compare edges of two images obtained before and after occurrence of event to detect deposit or withdrawal of object
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG); PHILIPS ELECTRONICS NORTH AMERICA CORP (PHIG)
Inventor: BRODSKY T ; COHEN R A ; COHEN-SOLAL E; LYONS D M; TRAJKOVIC M
Patent Family (7 patents, 24 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20020141637	A1	20021003	US 2001819779	A	20010328	200319	B
WO 2002080102	A2	20021010	WO 2002IB874	A	20020319	200319	E
KR 2003005410	A	20030117	KR 2002716076	A	20021127	200334	E
EP 1374173	A2	20040102	EP 2002705015	A	20020319	200409	E
			WO 2002IB874	A	20020319		
CN 1474998	A	20040211	CN 2002800900	A	20020319	200429	E
US 6731805	B2	20040504	US 2001819779	A	20010328	200430	E
JP 2004519786	W	20040702	JP 2002578249	A	20020319	200443	E
			WO 2002IB874	A	20020319		

Priority Applications (no., kind, date): US 2001819779 A 20010328

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020141637	A1	EN	15	5	
WO 2002080102	A2	EN			

National Designated States,Original: CN JP KR
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

EP 1374173	A2	EN			PCT Application WO 2002IB874 Based on OPI patent WO 2002080102

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

JP 2004519786	W	JA	56		PCT Application WO 2002IB874 Based on OPI patent WO 2002080102

Original Titles:
...METHOD AND APPARATUS TO DISTINGUISH BETWEEN DEPOSIT AND REMOVAL OF

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

OBJECTS IN SURVEILLANCE VIDEO SCENES...

...PROCEDE ET APPAREIL PERMETTANT DE DISTINGUER UN DEPOT D'UN RETRAIT EN SURVEILLANCE VIDEO
...

...Method and apparatus to distinguish deposit and removal in surveillance video
...

...METHOD AND APPARATUS TO DISTINGUISH DEPOSIT AND REMOVAL IN SURVEILLANCE VIDEO
...

...PROCEDE ET APPAREIL PERMETTANT DE DISTINGUER UN DEPOT D'UN RETRAIT EN SURVEILLANCE VIDEO
Inventor: BRODSKY T ...

... COHEN R A

Alerting Abstract ...USE - Event identification and detection system for surveillance video in warehouse to protect objects from being stolen...

Class Codes
...International Classification (Main): H04N-007/18

Original Publication Data by Authority

Inventor name & address:
BRODSKY, Tomas ...

... COHEN, Robert, A ...

... Brodsky, Tomas ...

... Cohen, Robert A ...

... Brodsky, Tomas ...

... Cohen, Robert A ...

... BRODSKY, Tomas ...
... COHEN, Robert, A

16/3,K/19 (Item 19 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0012714277 - Drawing available
WPI ACC NO: 2002-565969/200260
Related WPI Acc No: 2003-199622
XRPX Acc No: N2002-448052
Security monitoring system for residential place, computes trajectory of individual path from spatial and timing information obtained from recorded path
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG); PHILIPS ELECTRONICS NORTH AMERICA CORP (PHIG)
Inventor: BRODSKY T ; GUTTA S
Patent Family (11 patents, 29 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020070859	A1	20020613	US 2000734821	A	20001212	200260 B

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

WO 2002048982	A1	20020620	WO 2001EP13822	A	20011126	200260	E
US 6441734	B1	20020827	US 2000734821	A	20001212	200264	E
CN 1401112	A	20030305	CN 2001804872	A	20011126	200338	E
EP 1350234	A1	20031008	EP 2001270868	A	20011126	200370	E
			WO 2001EP13822	A	20011126		
JP 2004516560	W	20040603	WO 2001EP13822	A	20011126	200436	E
			JP 2002550616	A	20011126		
EP 1350234	B1	20050720	EP 2001270868	A	20011126	200547	E
			WO 2001EP13822	A	20011126		
DE 60112123	E	20050825	DE 60112123	A	20011126	200557	E
			EP 2001270868	A	20011126		
			WO 2001EP13822	A	20011126		
DE 60112123	T2	20060524	DE 60112123	A	20011126	200635	E
			EP 2001270868	A	20011126		
			WO 2001EP13822	A	20011126		
CN 1276395	C	20060920	CN 2001804872	A	20011126	200706	E
JP 3974038	B2	20070912	WO 2001EP13822	A	20011126	200761	E
			JP 2002550616	A	20011126		

Priority Applications (no., kind, date): US 2000734821 A 20001212

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020070859	A1	EN	7	2	
WO 2002048982	A1	EN			

National Designated States,Original: CN JP
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

EP 1350234	A1	EN		PCT Application WO 2001EP13822 Based on OPI patent WO 2002048982

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

JP 2004516560	W	JA	24	PCT Application WO 2001EP13822 Based on OPI patent WO 2002048982
EP 1350234	B1	EN		PCT Application WO 2001EP13822 Based on OPI patent WO 2002048982

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DE 60112123	E	DE		Application EP 2001270868 PCT Application WO 2001EP13822 Based on OPI patent EP 1350234 Based on OPI patent WO 2002048982
DE 60112123	T2	DE		Application EP 2001270868 PCT Application WO 2001EP13822 Based on OPI patent EP 1350234 Based on OPI patent WO 2002048982
JP 3974038	B2	JA	9	PCT Application WO 2001EP13822 Previously issued patent JP 2004516560 Based on OPI patent WO 2002048982

Inventor: BRODSKY T ...

Class Codes
... (Additional/Secondary): H04N-007/18
International Classification (+ Attributes)
IPC + Level Value Position Status Version
... H04N-0007/18 ...

... H04N-0007/18
... H04N-0007/18 ...

... H04N-0007/18

Original Publication Data by Authority

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Inventor name & address:
... BRODSKY T ...

... BRODSKY T ...

... BRODSKY, Tomas ...
... BRODSKY, Tomas ...

... Brodsky, Tomas ...

... Brodsky, Tomas ...

... BRODSKY, Tomas
Original Abstracts:
...alarm signal if the trajectory does not match one of the known trajectories. Preferably a video camera is used in each of an entrance, exit, and one or more rooms of the structure and the recorder records video segments of the path of the individual inside and/or outside the structure. Preferably the...

...alarm signal if the trajectory does not match one of the known trajectories. Preferably a video camera is used in each of an entrance, exit, and one or more rooms of the structure and the recorder records video segments of the path of the individual inside and/or outside the structure. Preferably the...

...alarm signal if the trajectory does not match one of the known trajectories. Preferably a video camera is used in each of an entrance, exit, and one or more rooms of the structure and the recorder records video segments of the path of the individual inside and/or outside the structure. Preferably the...d'alarme si cette trajectoire ne correspond pas aux trajectoires connues. De preference, une camera video est placee dans chaque entree/sortie, et dans une ou plusieurs pieces de la structure, et l'appareil d'enregistrement enregistre des segments video du trajet de la personne a l'interieur et/ou a l'exterieur de la...

16/3,K/20 (Item 20 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0012326041 - Drawing available
WPI ACC NO: 2002-267872/200231
XRPX Acc No: N2002-208339
Scalable video streaming method using moving picture experts group coding, involves selecting predetermined number of frames to transmit reduced amount of enhancement layer in specific layer
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: COHEN R A ; PARTHASARATHY K; RADHA H
Patent Family (7 patents, 30 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2001065855	A2	20010907	WO 2001EP1876	A	20010220	200231	B
EP 1183871	A2	20020306	EP 2001915281	A	20010220	200231	E
			WO 2001EP1876	A	20010220		
CN 1381139	A	20021120	CN 2001801124	A	20010220	200319	E
JP 2003525547	W	20030826	JP 2001563538	A	20010220	200357	E
			WO 2001EP1876	A	20010220		
TW 520606	A	20030211	TW 2001105407	A	20010308	200364	E
CN 1196339	C	20050406	CN 2001801124	A	20010220	200641	E
US 7095782	B1	20060822	US 2000516035	A	20000301	200656	E

Priority Applications (no., kind, date): US 2000516035 A 20000301

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Patent Details
Number Kind Lan Pg Dwg Filing Notes
WO 2001065855 A2 EN 20 5
National Designated States,Original: CN JP
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
EP 1183871 A2 EN PCT Application WO 2001EP1876
Based on OPI patent WO 2001065855
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR
JP 2003525547 W JA 30 PCT Application WO 2001EP1876
Based on OPI patent WO 2001065855
TW 520606 A ZH

Scalable video streaming method using moving picture experts group coding, involves selecting predetermined number of frames to...

Original Titles:
Method and apparatus for streaming scalable video
...

...A METHOD AND APPARATUS FOR STREAMING SCALABLE VIDEO
...

...PROCEDE ET APPAREIL DE LECTURE EN CONTINU D'UNE VIDEO ECHELONNABLE
Inventor: COHEN R A ...

Alerting Abstract ...Memory storing code for streaming scalable video ; Scalable video streaming apparatus
...

...USE - For streaming scalable video using moving picture experts group (MPEG) coding, and joint picture experts group (JPEG) coding

Title Terms/Index Terms/Additional Words: VIDEO ;

Class Codes
International Classification (Main): H04N-007/24
International Classification (+ Attributes)
IPC + Level Value Position Status Version
H04N-0007/24 ...

... H04N-0007/12
H04N-0007/24 ...

Original Publication Data by Authority

Inventor name & address:
COHEN, Robert, A ...

... Cohen, Robert A ...

... COHEN, Robert, A
Original Abstracts:
A system and method are disclosed for streaming scalable video data over a variable -bandwidth network such as a packet-based one. In other words, the number of bits...

...A system and method are disclosed for streaming scalable video data over a variable-bandwidth network such as a packet-based one. In other words, the number of bits (for FGS) or sub-layers...

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

...A system and method are disclosed for streaming scalable video data over a variable-bandwidth network such as a packet-based one. In other words, the number of bits (for FGS) or sub-layers (for discrete multi-layer scalability...

...L'invention concerne un systeme et un procede permettant de lire en continu des donnees video echelonnables sur un reseau a largeur de bande variable, par exemple un reseau par paquets. En d'autres termes , le nombre de bits (pour la variabilite a grains fins, FGS) ou de sous-couches ...

Claims:
What is claimed is:1. A method for streaming scalable video including base layer frames and enhancement layer frames, comprising the steps of: transmitting at least a portion of at least one of...

16/3,K/21 (Item 21 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0010092624 - Drawing available
WPI ACC NO: 2000-399310/200034
XRPX Acc No: N2000-299139
Control method for flow of data output to network
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: COHEN R A ; PARTHASARATHY K; RADHA H
Patent Family (6 patents, 23 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2000025518	A1	20000504	WO 1999EP8232	A	19991022	200034	B
EP 1046299	A1	20001025	EP 1999957973	A	19991022	200055	E
			WO 1999EP8232	A	19991022		
KR 2001033572	A	20010425	KR 2000707082	A	20000623	200164	E
US 6412013	B1	20020625	US 1998177962	A	19981023	200246	E
TW 512635	A	20021201	TW 2000102513	A	20000215	200353	E
JP 2004522325	W	20040722	WO 1999EP8232	A	19991022	200448	E
			JP 2000578995	A	19991022		

Priority Applications (no., kind, date): US 1998177962 A 19981023

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2000025518	A1	EN	28	7	
National Designated States,Original: JP KR					
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
EP 1046299	A1	EN			PCT Application WO 1999EP8232 Based on OPI patent WO 2000025518
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
TW 512635	A	ZH			
JP 2004522325	W	JA	42		PCT Application WO 1999EP8232 Based on OPI patent WO 2000025518

Inventor: COHEN R A ...

Alerting Abstract ...for flow of data output to network; and a network system in which flow of video data is controlled.
...

...ADVANTAGE - Enhances video quality since it reduces data overflow, data underflow, and network congestion in connection with transmitting video data over the internet.

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Class Codes
...International Classification (Main): H04N-007/24
... (Additional/Secondary): H04N-007/32 ...

... H04N-007/50

Original Publication Data by Authority

Inventor name & address:
... COHEN, Robert, A ...
... Cohen, Robert A ...

... COHEN, Robert, A

16/3,K/22 (Item 22 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2007 The Thomson Corporation. All rts. reserv.

0009906225 - Drawing available
WPI ACC NO: 2000-205331/200018
XRPX Acc No: N2000-152822
Scalable video encoding method for variable rate video transmission uses combination of frame prediction and fine granularity scalability coding on residual images
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG); PHILIPS AB (PHIG); US PHILIPS CORP (PHIG); US PHILIPS ELECTRONICS (PHIG)
Inventor: CHEN Y; COHEN R A ; RADHA H
Patent Family (9 patents, 22 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2000002392	A2	20000113	WO 1999IB1132	A	19990617	200018	B
EP 1040668	A2	20001004	EP 1999923815	A	19990617	200050	E
			WO 1999IB1132	A	19990617		
US 6292512	B1	20010918	US 1998110616	A	19980706	200157	E
US 20010024470	A1	20010927	US 1998110616	A	19980706	200159	E
			US 2001867891	A	20010530		
KR 2001023674	A	20010326	KR 2000702327	A	20000304	200161	E
JP 2002520920	W	20020709	WO 1999IB1132	A	19990617	200259	E
			JP 2000558673	A	19990617		
US 20030002579	A1	20030102	US 1998110616	A	19980706	200305	E
			US 2001867891	A	20010530		
			US 2002197328	A	20020717		
US 6532263	B2	20030311	US 1998110616	A	19980706	200321	E
			US 2001867891	A	20010530		
US 6661841	B2	20031209	US 1998110616	A	19980706	200381	E
			US 2001867891	A	20010530		
			US 2002197328	A	20020717		

Priority Applications (no., kind, date): US 2002197328 A 20020717; US 2001867891 A 20010530; US 1998110616 A 19980706

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2000002392	A2	EN	36	11	

National Designated States,Original: JP KR
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

EP 1040668	A2	EN			PCT Application WO 1999IB1132 Based on OPI patent WO 2000002392

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

US 20010024470	A1	EN		Continuation of application US 1998110616
JP 2002520920	W	JA	47	PCT Application WO 1999IB1132 Based on OPI patent WO 2000002392
US 20030002579	A1	EN		Continuation of application US 1998110616 Continuation of application US 2001867891 Continuation of patent US 6292512
US 6532263	B2	EN		Continuation of application US 1998110616
US 6661841	B2	EN		Continuation of application US 1998110616 Continuation of application US 2001867891 Continuation of patent US 6292512 Continuation of patent US 6532263

Scalable video encoding method for variable rate video transmission uses combination of frame prediction and fine granularity scalability coding on residual images
Original Titles:
...SCALABLE VIDEO CODING SYSTEM...

...SYSTEME DE CODAGE VIDEO ECHELONNABLE...

...Scalable video coding system...

...Scalable video coding system...

...Scalable video coding system...

...Scalable video coding system...

...Scalable video coding system...

...SCALABLE VIDEO CODING SYSTEM...

...SYSTEME DE CODAGE VIDEO ECHELONNABLE
...Inventor: COHEN R A

Alerting Abstract ...NOVELTY - The video compression system inputs video from some source (42). The video stream is initially encoded (44) using frame prediction techniques. This generates a base layer that...
USE - Video transmission over variable rate lines...

...DESCRIPTION OF DRAWINGS - Video compressor...

...42 Video source...

Title Terms/Index Terms/Additional Words: VIDEO ;

Class Codes
...International Classification (Main): H04N-007/12 ...

... H04N-007/18 ...

... H04N-007/30 ...

... H04N-007/32

Original Publication Data by Authority

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

IMAGING LTD (FACE-N); AVNIR D (AVNI-I); COHEN R (COHE-I); PELEG S (PELE-I)
Inventor: AVNIR D; COHEN R ; PELEG S
Patent Family (9 patents, 73 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 1997015926	A1	19970501	WO 1996IB1056	A	19961007	199726	B
AU 199669989	A	19970515	AU 199669989	A	19961007	199736	E
IL 115552	A	19981126	IL 115552	A	19951008	199912	E
JP 11514479	W	19991207	WO 1996IB1056	A	19961007	200008	E
			JP 1997516423	A	19961007		
EP 972285	A1	20000119	EP 1996931212	A	19961007	200009	E
			WO 1996IB1056	A	19961007		
US 6492990	B1	20021210	US 19958874	P	19951219	200301	E
			WO 1996IB1056	A	19961007		
			US 199851417	A	19980715		
US 20030085901	A1	20030508	US 199851417	A	19980715	200337	E
			US 2002279097	A	20021024		
US 7109993	B2	20060919	US 199851417	A	19980715	200662	E
			US 2002279097	A	20021024		
US 20070165022	A1	20070719	US 199851417	A	19980715	200749	NCE
			US 2002279097	A	20021024		
			US 2006498321	A	20060801		

Priority Applications (no., kind, date): IL 115552 A 19951008; US 19958874 P 19951219; US 2006498321 A 20060801

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1997015926	A1	EN	92	4	

National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN
Regional Designated States,Original: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

AU 199669989	A	EN			Based on OPI patent WO 1997015926
IL 115552	A	EN			
JP 11514479	W	JA	84		PCT Application WO 1996IB1056
					Based on OPI patent WO 1997015926
EP 972285	A1	EN			PCT Application WO 1996IB1056
					Based on OPI patent WO 1997015926

Regional Designated States,Original: BE CH DE DK ES FR GB IE IT LI NL PT SE

US 6492990	B1	EN	Related to Provisional US 19958874
			PCT Application WO 1996IB1056
			Based on OPI patent WO 1997015926
US 20030085901	A1	EN	C-I-P of application US 199851417
			C-I-P of patent US 6492990
US 7109993	B2	EN	C-I-P of application US 199851417
			C-I-P of patent US 6492990
US 20070165022	A1	EN	C-I-P of application US 199851417
			Continuation of application US 2002279097
			C-I-P of patent US 6492990
			Continuation of patent US 7109993

...Inventor: COHEN R

Alerting Abstract ...original movie and sound track of dubbed movie, for e. g cinematic feature films, advertisements, video and animated cartoon.

Class Codes
...International Classification (Main): H04N-005/262

image on the display screen satisfy a certain relationship, the object0 image as a control target object of the player while input coordinates are continued to be detected from the touch panel by the input coordinate detection means;display-coordinate update means for sequentially updating the display coordinates of the control target object according to input coordinates sequentially detected by the input coordinate detection means ; anddisplay state change means for changing, when current input coordinates and the display coordinates of the control target object are spaced apart by a predetermined distance, a display state of the game image so as to indicate that the control target object is set as a control target of the player.

A 29/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0008452304 - Drawing available
WPI ACC NO: 1997-226532/199720
XRPX Acc No: N1997-187371
Compressed format encoding method for information within two frame video image frame sequence - using encoder process with object or feature based video compression rather than fixed, regular arrays of pixels to improve accuracy and versatility of encoding interface motion and interframe image features
Patent Assignee: MICROSOFT CORP (MICT)
Inventor: CHEN W; GRAY D; LEE M; POWELL I W C; POWELL W C; ZABINSKY S I
Patent Family (29 patents, 70 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 1997013372	A2	19970410	WO 1996US15892	A	19961004	199720	B
AU 199673889	A	19970428	AU 199673889	A	19961004	199733	E
WO 1997013372	A3	19970529				199737	E
US 5784175	A	19980721	US 19955031	P	19951005	199836	E
			US 1996658093	A	19960604		
US 5796855	A	19980818	US 19955031	P	19951005	199840	E
			US 1996657274	A	19960604		
EP 873653	A2	19981028	EP 1996936177	A	19961004	199847	E
			WO 1996US15892	A	19961004		
US 5825929	A	19981020	US 19955031	P	19951005	199849	E
			US 1996659309	A	19960604		
US 5933535	A	19990803	US 19955031	P	19951005	199937	E
			US 1996657272	A	19960604		
US 5949919	A	19990907	US 19955031	P	19951005	199943	E
			US 1996657273	A	19960604		
US 5959673	A	19990928	US 19955031	P	19951005	199947	E
			US 1996657282	A	19960604		
US 5970173	A	19991019	US 19955031	P	19951005	199950	E
			US 1996658094	A	19960604		
JP 11512911	W	19991102	WO 1996US15892	A	19961004	200003	E
			JP 1997514434	A	19961004		
US 5995670	A	19991130	US 19955031	P	19951005	200003	E
			US 1996657271	A	19960604		
US 6026182	A	20000215	US 19955031	P	19951005	200016	E
			US 1996657275	A	19960604		
EP 1122956	A2	20010808	EP 1996936177	A	19961004	200146	E
			EP 2001110599	A	19961004		
EP 873653	B1	20020828	EP 1996936177	A	19961004	200264	E
			WO 1996US15892	A	19961004		
			EP 2001110599	A	19961004		
DE 69623330	E	20021002	DE 69623330	A	19961004	200273	E
			EP 1996936177	A	19961004		
			WO 1996US15892	A	19961004		
CA 2233704	C	20030916	CA 2233704	A	19961004	200362	E

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			WO 1996US15892	A	19961004		
CA 2432735	A1	19970410	CA 2233704	A	19961004	200371	E
			CA 2432735	A	19961004		
CA 2432740	A1	19970410	CA 2233704	A	19961004	200371	E
			CA 2432740	A	19961004		
CA 2432741	A1	19970410	CA 2233704	A	19961004	200371	E
			CA 2432741	A	19961004		
CA 2432740	C	20040914	CA 2233704	A	19961004	200461	E
			CA 2432740	A	19961004		
CA 2432741	C	20040914	CA 2233704	A	19961004	200461	E
			CA 2432741	A	19961004		
CA 2432735	C	20050524	CA 2233704	A	19961004	200538	E
			CA 2432735	A	19961004		
EP 1122956	B1	20050720	EP 1996936177	A	19970410	200547	E
			EP 2001110599	A	19961004		
DE 69634962	E	20050825	DE 69634962	A	19961004	200557	E
			EP 2001110599	A	19961004		
EP 1589765	A2	20051026	EP 1996936177	A	19970410	200570	E
			EP 2001110599	A	20010430		
			EP 200513279	A	19961004		
EP 1589766	A2	20051026	EP 1996936177	A	19970410	200570	E
			EP 2001110599	A	20010430		
			EP 200513280	A	19961004		
DE 69634962	T2	20060413	DE 69634962	A	19961004	200626	E
			EP 2001110599	A	19961004		

Priority Applications (no., kind, date): US 19955031 P 19951005; US 1996657271 A 19960604; US 1996657272 A 19960604; US 1996657273 A 19960604; US 1996657274 A 19960604; US 1996657275 A 19960604; US 1996657282 A 19960604; US 1996658093 A 19960604; US 1996658094 A 19960604; US 1996659309 A 19960604

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1997013372	A2	EN	104		
National Designated States,Original: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN					
Regional Designated States,Original: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG					
AU 199673889	A	EN			Based on OPI patent WO 1997013372
WO 1997013372	A3	EN			
US 5784175	A	EN			Related to Provisional US 19955031
US 5796855	A	EN			Related to Provisional US 19955031
EP 873653	A2	EN			PCT Application WO 1996US15892
					Based on OPI patent WO 1997013372
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
US 5825929	A	EN			Related to Provisional US 19955031
US 5933535	A	EN			Related to Provisional US 19955031
US 5949919	A	EN			Related to Provisional US 19955031
US 5959673	A	EN			Related to Provisional US 19955031
US 5970173	A	EN			Related to Provisional US 19955031
JP 11512911	W	JA	112		PCT Application WO 1996US15892
					Based on OPI patent WO 1997013372
US 5995670	A	EN			Related to Provisional US 19955031
US 6026182	A	EN			Related to Provisional US 19955031
EP 1122956	A2	EN			Division of application EP 1996936177
					Division of patent EP 873653
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
EP 873653	B1	EN			PCT Application WO 1996US15892
					Related to application EP 2001110599

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			Related to patent EP 1122956 Based on OPI patent WO 1997013372
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE			
DE 69623330	E	DE	Application EP 1996936177 PCT Application WO 1996US15892 Based on OPI patent EP 873653 Based on OPI patent WO 1997013372
CA 2233704	C	EN	PCT Application WO 1996US15892 Based on OPI patent WO 1997013372
CA 2432735	A1	EN	Division of application CA 2233704
CA 2432740	A1	EN	Division of application CA 2233704
CA 2432741	A1	EN	Division of application CA 2233704
CA 2432740	C	EN	Division of application CA 2233704
CA 2432741	C	EN	Division of application CA 2233704
CA 2432735	C	EN	Division of application CA 2233704
EP 1122956	B1	EN	Division of application EP 1996936177 Division of patent EP 873653
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE			
DE 69634962	E	DE	Application EP 2001110599 Based on OPI patent EP 1122956
EP 1589765	A2	EN	Division of application EP 1996936177 Division of application EP 2001110599 Division of patent EP 1122956 Division of patent EP 873653
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE			
EP 1589766	A2	EN	Division of application EP 1996936177 Division of application EP 2001110599 Division of patent EP 1122956 Division of patent EP 873653
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE			
DE 69634962	T2	DE	Application EP 2001110599 Based on OPI patent EP 1122956

Compressed format encoding method for information within two frame video image frame sequence...

...using encoder process with object or feature based video compression rather than fixed, regular arrays of pixels to improve accuracy and versatility of encoding...

Original Titles:
...Extrapolation of pixel values of a video object within a block boundary...

...Extrapolation des valeurs des pixels d'un objet video contenu dans un bloc...

...Extrapolation of pixel values of a video object within a block boundary...

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...the subcomponents are greater than the signal-to-noise ratio of the transformation block by more than a predetermined threshold .

Video encoding and decoding processes provide compression and decompression of digitized video signals representing display motion in video sequences of multiple image frames. The encoder process utilizes object - or feature-based video compression to improve the accuracy and versatility of encoding interframe motion and intraframe image features. Video information is compressed relative to objects or features of arbitrary configurations, rather than fixed, regular arrays of pixels as in conventional video compression methods. This reduces the error components and thereby improves the compression efficiency and accuracy. The decoder process decompresses the encoded video information to reconstruct the objects or features of arbitrary configurations.

29/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0007987972 - Drawing available
WPI ACC NO: 1997-079580/199708
XRPX Acc No: N1997-136441
Multi-media playing appts. for hyper-media titles - has control and synchronisation processor preparing player for multimedia title playing in response to play command input unit
Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU); MATSUSHITA ELECTRIC IND CO LTD (MATU)
Inventor: ASAI K; MINEMURA A; OKA T; SATO M
Patent Family (12 patents, 7 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 753820	A1	19970115	EP 1996111195	A	19960711	199708	B
AU 199659437	A	19970130	AU 199659437	A	19960710	199713	E
JP 9026868	A	19970128	JP 1995174662	A	19950711	199714	E
CA 2180969	A	19970112	CA 2180969	A	19960710	199720	E
JP 9128371	A	19970516	JP 1995306372	A	19951101	199730	E
AU 693371	B	19980625	AU 199659437	A	19960710	199836	E
JP 3213225	B2	20011002	JP 1995306372	A	19951101	200164	E
EP 753820	B1	20020925	EP 1996111195	A	19960711	200271	E
DE 69623880	E	20021031	DE 69623880	A	19960711	200279	E
			EP 1996111195	A	19960711		
US 6487564	B1	20021126	US 1996677752	A	19960710	200281	E
CA 2180969	C	20030513	CA 2180969	A	19960710	200335	E
JP 3502196	B2	20040302	JP 1995174662	A	19950711	200416	E

Priority Applications (no., kind, date): EP 1996111195 A 19960711; JP 1995174662 A 19950711; JP 1995306372 A 19951101

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 753820	A1	EN	67	43	
Regional Designated States,Original: DE FR GB					
JP 9026868	A	JA	28		
CA 2180969	A	EN			
JP 9128371	A	JA	21		
AU 693371	B	EN			Previously issued patent AU 9659437
JP 3213225	B2	JA	23		Previously issued patent JP 09128371
EP 753820	B1	EN			
Regional Designated States,Original: DE FR GB					
DE 69623880	E	DE			Application EP 1996111195 Based on OPI patent EP 753820

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

non base-axis objects and specifying, for said corresponding non base-axis object , a processing time point during said playing progression at which a processing operation for starting playing of said non base-axis object or a processing operation for ending playing of said non base-axis object is to be executed, each of said processing time points being expressed as an integral number of said playing sections, subject matter data storage means for storing respective subject matter data of said base-axis object and each of said non base-axis objects ; timer event generating means for periodically generating timer events; base-axis object display means controllable for acquiring subject matter data of said base- axis object from said subject matter data storage means and utilizing said subject matter data to-play said base -axis object , non base-axis object display means for playing said non base -axis objects ; internal data memory means; processing event counter means; playing progression counter means for counting successive ones of said playing sections during playing...

...initial processing, when input of said "play" input command occurs, executing operations for controlling said base - axis object display means to begin to acquire said base-axis object subject matter data, in response to occurrence of each of said timer events, obtaining respective current values of said playing sections count and processing event count, obtaining from said internal memory means...

...said synchronization trigger data having a storage location which corresponds to said processing event count value , judging whether said playing sections count value is greater than or equal to a processing time point value which is specified in said obtained set of synchronization trigger data , and, when said playing sections count value is judged to be greater than or equal to said specified processing time point value , executing a processing operation which is specified in said synchronization trigger data set , for a non base -axis object which is identified in said synchronization trigger data set, and incrementing said processing event counter means.

29/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0007316332 - Drawing available
WPI ACC NO: 1995-378751/199549
XRPX Acc No: N1995-278222
Video control device e.g. for virtual reality type video game - extracts chroma-key image of specific colour in signal and equalises its position coordinates among two or more consecutive frames
Patent Assignee: CASIO COMPUTER CO LTD (CASK)
Inventor: OTSUKA T
Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
JP 7255948	A	19951009	JP 199475357	A	19940322	199549	B
JP 3407394	B2	20030519	JP 199475357	A	19940322	200334	E

Priority Applications (no., kind, date): JP 199475357 A 19940322

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 7255948	A	JA	27	31	
JP 3407394	B2	JA	27		Previously issued patent JP 07255948

Video control device e.g. for virtual reality type video game...

Alerting Abstract ...The device has a video signal processor (20) which extracts the chroma-key image of a specific colour. A position...

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...The first coordinates value equalised at a predetermined range makes main value second coordinates value to equal the second coordinates value at display position. An image processor (30) carries out movement in the display of the object image...

Title Terms/Index Terms/Additional Words: VIDEO ;

29/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0006942630 - Drawing available
WPI ACC NO: 1994-342018/199442
XRPX ACC No: N1994-268205
Optical measurement device for width or thickness of e.g. sawn timber - illuminates object obliquely with two elongated light sources, the image being reflected through two parabolic mirrors to video camera
Patent Assignee: RYDNINGEN T (RYDN-I)
Inventor: RYDNINGEN T
Patent Family (5 patents, 52 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 1994024515	A1	19941027	WO 1994NO75	A	19940415	199442	B
NO 199301427	A	19941020	NO 19931427	A	19930419	199445	E
AU 199465832	A	19941108	AU 199465832	A	19940415	199507	E
NO 180316	B	19961216	NO 19931427	A	19930419	199705	E
US 5680219	A	19971021	WO 1994NO75	A	19940415	199748	E
			US 1996545671	A	19960304		

Priority Applications (no., kind, date): NO 19931427 A 19930419

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1994024515	A1	EN	14	5	

National Designated States,Original: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KG KP KR KZ LK LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN
Regional Designated States,Original: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE

AU 199465832	A	EN			Based on OPI patent WO 1994024515
NO 180316	B	NO			Previously issued patent NO 9301427
US 5680219	A	EN	8	5	PCT Application WO 1994NO75 Based on OPI patent WO 1994024515

...illuminates object obliquely with two elongated light sources, the image being reflected through two parabolic mirrors to video camera

Alerting Abstract ...An automatic, contact-less, optical video measurement system inputs a reflected image from an object (7), moving or stationary, to a CCD video camera (5) through two parabolic mirrors (3,4), coated on their concave sides. The camera and mirrors are mounted in a dustproof cabinet, with the reflected image from the object entering through an elongated aperture (8), covered with a filter glass. The object is illuminated obliquely from two light sources (1,2...

...Each single object is measured individually, with an operator being informed. If measured values differ by more than a predetermined amt. from a reference value , an alarm may be given...

...saw mill, e.g. within 25 microseconds, thus avoiding errors due to

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

camera having a viewing field containing a plurality of scanning lines searchable in a direction parallel to said slot; mirror means for applying ...

...shape of the mirrors having a focal axis, the focal axes of the first and second parabolic mirrors lying normal to said slot and hence parallel to the axis of the object and in a common plane, said first parabolic mirror receiving the light passing through said slot, said first and second parabolic mirrors being arranged such...

...reflected from said first parabolic mirror and applying it to the viewing field of said video camera to sense variations in the reflected light; and means coupled to said video camera for determining the width of the object to be measured from the sensed light variations.

32/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0015551419 - Drawing available
WPI ACC NO: 2006-115573/200612
XRPX Acc No: N2006-099988
Photographic lens system for e.g. single lens reflex camera, has fixed lens units, movable lens unit, additional lens unit and aperture stop which are disposed in order from object side to image side
Patent Assignee: CANON KK (CANO)
Inventor: TAKI Y; TAKI K
Patent Family (3 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20060007342	A1	20060112	US 2005177891	A	20050708	200612	B
JP 2006023680	A	20060126	JP 2004203859	A	20040709	200612	E
JP 2006171432	A	20060629	JP 2004364529	A	20041216	200643	E

Priority Applications (no., kind, date): JP 2004203859 A 20040709; JP 2004364529 A 20041216

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20060007342	A1	EN	39	28	
JP 2006023680	A	JA	17		
JP 2006171432	A	JA	20		

...movable lens unit, additional lens unit and aperture stop which are disposed in order from object side to image side

Alerting Abstract ...during focusing. The lens units and the aperture stop are disposed in order from an object side to an image side. An image formed by the photographic lens system is displaced by movement of the fixed lens unit in a direction, and a predetermined formula is satisfied. ...USE - Used for a single lens reflex camera, photographic camera or a video camera...

...ADVANTAGE - The system enables to focus on an object and reduce the effect of fluctuations of various aberrations due to focusing in both a...

Title Terms.../Index Terms/Additional Words: OBJECT ;

Original Publication Data by Authority

Claims:

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...is movable in a first direction which includes a vector component orthogonal to an optical axis ;a second lens unit movable during focusing;an aperture stop; andat least one additional lens unit...

...unit, the aperture stop, and the additional lens unit are disposed in order from the object side to the image side,wherein an image formed by the photographic lens system is displaced by movement of the at least part of the first lens unit in the first direction, andwherein</br>0.8< dsp/fis satisfied, where dsp represent the distance from the aperture stop to a surface closest to the object side of the photographic lens system and f represents the focal length of the photographic lens system.

32/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0014506569 - Drawing available
WPI ACC NO: 2004-688489/200467
XRPX Acc No: N2004-545376
Imaging lens for use in e.g. digital still camera, sets distances between lens element surfaces, and optical axis and outermost effective portion of one of lens element surfaces to satisfy specific conditions
Patent Assignee: FUJI PHOTO OPTICAL CO LTD (FUOP); FUJINON CORP (FUOP); YAMAKAWA H (YAMA-I)
Inventor: YAMAKAWA H
Patent Family (4 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20040179276	A1	20040916	US 2004790882	A	20040303	200467	B
JP 2004271991	A	20040930	JP 200363786	A	20030310	200467	E
JP 3717486	B2	20051116	JP 200363786	A	20030310	200579	E
US 7035018	B2	20060425	US 2004790882	A	20040303	200628	E

Priority Applications (no., kind, date): US 2004790882 A 20040303; JP 200363786 A 20030310

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20040179276	A1	EN	28	23	
JP 2004271991	A	JA	19		
JP 3717486	B2	JA	19		Previously issued patent JP 2004271991

Alerting Abstract ...element (L1) has negative refractive power with convex and concave surfaces (S1,S2) on respective object and image sides. Another lens element (L2) has positive refractive power with convex surface (S4...
USE - Imaging lens for image pick-up device e.g. digital still camera, and video camera used in portable terminal such as portable telephones...

Title Terms.../Index Terms/Additional Words: DISTANCE ;

Original Publication Data by Authority

Original Abstracts:
...two lens components that may each consist of a lens element. In order from the object side, these lens components have negative and positive refractive power, with each lens component having two aspheric surfaces. A ...

...two lens components that may each consist of a lens element. In order from the object side, these lens components have negative and positive

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shift of said radiation source along the X - axis direction with respect to said sensor means by a small displacement B or by tilting said radiation source around the Y - axis by a small angle inclined with respect to the Z-axis, and exposing said sensor means to a radiation beam from said radiation source under a substantially identical exposure condition with said marker G leaving an image point g2...

...the line segment connecting the two eyes of said observer is substantially parallel to the X - axis ; said two images being provided with two stationary, transversely aligned reference lines, referred to as the left reference line and right reference line, respectively, across the image plane in the Y -direction and lying substantially on or very close to said image plane; the two images being substantially at the same Y - axis position; and(c) performing and measuring horizontal shifting motions of said two images and obtaining the depth coordinate, ZGA, of an internal feature A with respect to marker G according to the following procedures:i. Shift the two images in the X-direction until the right image point...
...the shifting procedure (c)-i, use displacement-metering means to measure and record a travel distance PG of the left image relative to the right image;iii Shift said two images...

...of interest on said right image to fall on said right reference line and the corresponding image point a1 of said feature A on said left image to fall on said left reference line;iv During or after the shifting procedure, measure and record the travel distance PA of the left image relative to the right image to obtain a relative image shift quantity defined as DeltaPGA=PG-PA; andv Use the formula ZGA=(H/B)DeltaPGA to calculate the vertical depth or Z-coordinate, ZGA, of said feature A with respect to said marker G, where H is the vertical distance from said radiation source to said front surface of the object.>

32/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0012496075 - Drawing available
WPI ACC NO: 2002-443591/200247
XRPX Acc No: N2002-349520
Intermediate telephoto lens system in video camera, has two lens groups with strong positive power and negative meniscus lenses, which are moved during focusing to states of specific relation
Patent Assignee: ASAHI KOGAKU KOGYO KK (ASAO); ASAHI OPTICAL CO LTD (ASAO); PENTAX CORP (ASAO)
Inventor: YONEYAMA S
Patent Family (4 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20020048092	A1	20020425	US 2001933773	A	20010822	200247	B
JP 2002139668	A	20020517	JP 2001245472	A	20010813	200248	E
US 6549343	B2	20030415	US 2001933773	A	20010822	200329	E
JP 3689356	B2	20050831	JP 2001245472	A	20010813	200558	E

Priority Applications (no., kind, date): US 2001933773 A 20010822; JP 2000252828 A 20000823

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020048092	A1	EN	23	30	
JP 2002139668	A	JA	13		
JP 3689356	B2	JA	16		Previously issued patent JP 2002139668

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...condition:(nu prime1-1+nu prime1-2)/2>102whereinnuprime1-1 designates the dispersion ratio of said positive first lens element;nuprime1-2 designates the dispersion ratio of said positive second lens element ;(nuprime=(nd-1)/(ng- nF)nd designates the refractive index of the d-line with respect to each lens element;ng designates the refractive index of the g-line with respect to each lens element; andnF designates the refractive index of the F-line with respect to each lens element.

32/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0012463848 - Drawing available
WPI ACC NO: 2002-410119/200244
XRPX Acc No: N2002-322355
Zoom lens for digital camera, has two lens groups whose focal length and abnormal dispersibility of lens group medium satisfies predetermined relation
Patent Assignee: KOBAYASHI Y (KOBA-I); MIHARA S (MIHA-I); OLYMPUS CORP (OLYU); OLYMPUS OPTICAL CO LTD (OLYU); UZAWA T (UZAW-I)
Inventor: KOBAYASHI Y; MIHARA S; UZAWA T
Patent Family (5 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
JP 2002062478	A	20020228	JP 2000250577	A	20000822	200244	B
US 20020063970	A1	20020530	US 2001934074	A	20010822	200244	E
US 6594087	B2	20030715	US 2001934074	A	20010822	200348	E
US 20030202257	A1	20031030	US 2001934074	A	20010822	200372	E
			US 2003441107	A	20030520		
US 6825989	B2	20041130	US 2001934074	A	20010822	200479	E
			US 2003441107	A	20030520		

Priority Applications (no., kind, date): JP 2000250577 A 20000822

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 2002062478	A	JA	73	57	
US 20030202257	A1	EN			Continuation of application US 2001934074
					Continuation of patent US 6594087
US 6825989	B2	EN			Continuation of application US 2001934074
					Continuation of patent US 6594087

Alerting Abstract USE - For video camera, digital camera, etc...

Original Publication Data by Authority

Original Abstracts:
...group G1 which is movable along its optical axis during zooming and has positive refracting power , a second lens group G2 which moves toward the image side along the optical axis during zooming...

...positive refracting power, a second lens group G2 which moves toward the image side along the optical axis during zooming from the wide-angle end to the telephoto end and has negative refracting...
Claims:
What we claim is:1. A zoom lens system comprising, in order from an object side thereof, a first lens group which is movable along an optical axis of said zoom lens system during zooming and has positive refracting power, a second lens...

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EP 1176559	A2	20020130	EP 2001306264	A	20010720	200239	B
JP 2002140705	A	20020517	JP 2001220048	A	20010719	200248	E
US 6795068	B1	20040921	US 2000621578	A	20000721	200462	E
US 20050024379	A1	20050203	US 2000621578	A	20000721	200511	E
			US 2004927918	A	20040826		
US 20050026689	A1	20050203	US 2000621578	A	20000721	200511	E
			US 2004928778	A	20040826		
JP 2006178948	A	20060706	JP 2001220048	A	20010719	200644	E
			JP 2005351271	A	20051205		
US 7113193	B2	20060926	US 2000621578	A	20000721	200663	E
			US 2004927918	A	20040826		
US 20060238549	A1	20061026	US 2000621578	A	20000721	200671	E
			US 2004928778	A	20040826		
			US 2006448454	A	20060606		
JP 3901960	B2	20070404	JP 2001220048	A	20010719	200726	E

Priority Applications (no., kind, date): US 2000621578 A 20000721; US 2004927918 A 20040826; US 2004928778 A 20040826; US 2006448454 A 20060606

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1176559	A2	EN	20	8	
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2002140705	A	JA	17		
US 20050024379	A1	EN			Division of application US 2000621578
					Division of patent US 6795068
US 20050026689	A1	EN			Continuation of application US 2000621578
					Continuation of patent US 6795068
JP 2006178948	A	JA	26		Division of application JP 2001220048
US 7113193	B2	EN			Division of application US 2000621578
					Division of patent US 6795068
US 20060238549	A1	EN			Continuation of application US 2000621578
					Continuation of application US 2004928778
					Continuation of patent US 6795068
JP 3901960	B2	JA	22		Previously issued patent JP 2002140705

Video game program control method in entertainment system, involves executing predetermined algorithm on set of parameters of pixel group, for providing description of three dimensional geometric volume of object

Original Titles:

...Prop input device and method for mapping an object from a two-dimensional camera image to a three-dimensional space for controlling action in...

...COLUMNAR INPUT DEVICE AND METHOD FOR MAPPING OBJECT IN THREE-DIMENSIONAL SPACE FROM TWO-DIMENSIONAL CAMERA PICTURE FOR CONTROLLING ACTION IN GAME PROGRAM...

...PROP INPUT DEVICE AND METHOD FOR MAPPING OBJECT FROM TWO-DIMENSIONAL CAMERA IMAGE TO THREE-DIMENSIONAL SPACE FOR CONTROLLING ACTION IN GAME PROGRAM...

...System and method for object tracking...

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

WPI ACC NO: 2002-338673/200237
XRPX Acc No: N2002-266278
Lens device for video camera has positive-optical-power lens group that is arranged at preset distance from negative-optical-power lens group satisfying preset relation
Patent Assignee: MINOLTA CAMERA KK (MIOC); MINOLTA CO LTD (MIOC)
Inventor: HAGIMORI H
Patent Family (3 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20020024746	A1	20020228	US 2001891993	A	20010626	200237	B
JP 2002082284	A	20020322	JP 2000368342	A	20001204	200237	E
US 6515805	B2	20030204	US 2001891993	A	20010626	200313	E

Priority Applications (no., kind, date): US 2001891993 A 20010626; JP 2000200591 A 20000703; JP 2000368342 A 20001204

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020024746	A1	EN	25	17	
JP 2002082284	A	JA	22		

Lens device for video camera has positive-optical-power lens group that is arranged at preset distance from negative-optical-power lens group satisfying preset relation

Alerting Abstract ...lens groups (Gr2,Gr1). The positive-optical-power lens group (Gr2) is arranged at preset distance from the negative-optical-power lens group (Gr1). The axial thickness of lens in the ...
USE - For digital camera, video camera, camera that is incorporated in or externally fitted to digital video unit, personal computer, mobile computer, portable telephone, personal digital assistant (PDA), etc...

Title Terms.../Index Terms/Additional Words: VIDEO ; ...

... DISTANCE ;

Original Publication Data by Authority

Original Abstracts:
...lens system, including a plurality of lens units, for forming an optical image of an object with variable magnification achieved by varying the distances between the lens units, and an image sensor for converting the...

...the zoom lens system into an electric signal. The zoom lens system includes, from the object side to the image side a first lens unit that has a negative optical power, that is composed solely...

...single negative lens element having a sharper curvature on the image side than on the object side thereof, and that is moved along the optical axis during zooming, and a second lens unit that is disposed with an aerial distance secured between itself and the first lens unit, that has a positive optical power, and that is moved along the optical axis during zooming. Moreover, the following conditional formulae are fulfilled: 0. 3 <t1/Yprime<1.5 and 1.4<|f1/fw|<5, where t1 represents the axial thickness (surface-to-surface distance along the optical axis) of the negative lens element constituting the first lens unit, Yprime represents the maximum image...

...lens system, including a plurality of lens units, for forming an optical image of an object with variable magnification achieved by varying the distances between the lens units, and an image sensor for converting the

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

optical image formed by the zoom lens system into an electric signal. The zoom lens system includes, from the object side to the image side a first lens unit that has a negative optical power, that is composed solely of a single negative lens element having a sharper curvature on the image side than on the object side thereof, and that is moved along the optical axis during zooming, and a second lens unit that is disposed with an aerial distance secured between itself and the first lens unit, that has a positive optical power, and that is moved along the optical axis during zooming. Moreover, the following conditional formulae are fulfilled: 0.3<t1/Yprime<1.5 and 1.4<|f1/fw|<5, where t1 represents the axial thickness (surface-to-surface distance along the optical axis) of the negative lens element constituting the first lens unit, Yprime represents the maximum image height shootable, f1 represents the focal length of the...

Claims:

...lens system, comprising a plurality of lens units, for forming an optical image of an object with variable magnification achieved by varying distances between the lens units ; andan image sensor for converting the optical image formed by the zoom lens system into an electric signal,wherein the zoom lens system comprises, from an object side to an image side:a first lens unit having a negative optical power and composed solely of a single negative lens element having a sharper curvature on an image side than on an object side thereof, the first lens unit being moved along an optical axis during zooming; anda second lens unit disposed with an aerial distance secured between itself and the first lens unit and having a positive optical power, the second lens unit being moved along the optical axis during zooming,wherein the following conditional formulae (1) and (2) are fulfilled:0.3< t1/Yprime <1.5 (1)1.4<| f1/fw| <5 (2)wheret1 represents an axial thickness (surface-to-surface distance along the optical axis) of the negative lens element constituting the first lens unit;Yprime represents a maximum image height shootable;f1 represents a focal length of the first lens unit; andfw represents a focal length of the entire zoom lens system at a wide-angle end.

...

...lens system, comprising a plurality of lens units, for forming an optical image of an object with variable magnification achieved by varying distances between the lens units; andan image sensor...

...zoom lens system into an electric signal,wherein the zoom lens system comprises, from an object side to an image side:a first lens unit having a negative optical power and composed solely of a single negative lens element having a sharper curvature on an image side than on an object side thereof, the first lens unit being moved along an optical axis during zooming; anda second lens unit disposed with an aerial distance secured between itself and the first lens unit and having a positive optical power, the second lens unit being moved along the optical axis during zooming,wherein the following conditional formulae (1) and (2) are fulfilled:0.3< t1/Yprime <1.5 (1)1.4<| f1/fw| <5 (2)wheret1 represents an axial thickness (surface-to-surface distance along the optical axis) of the negative lens element constituting the first lens unit;Yprime represents a maximum image height shootable;f1 represents a focal length of the first lens unit; andfw represents

32/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0010613636 - Drawing available
WPI ACC NO: 2001-219663/200123
XRPX Acc No: N2001-156529
Zoom lens for video camera has four lens groups disposed from object

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

side to image plane side, with 2nd having aspherical surface, 3rd three lenses and 4th with positive lens including one aspherical surface
Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU); MATSUSHITA ELECTRIC IND CO LTD (MATU)
Inventor: OKAYAMA H; ONO S
Patent Family (8 patents, 28 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 1046940	A2	20001025	EP 2000107053	A	20000404	200123	B
JP 2000292699	A	20001020	JP 199997426	A	19990405	200123	E
KR 2000071548	A	20001125	KR 200017359	A	20000403	200131	E
KR 340018	B	20020610	KR 200017359	A	20000403	200279	E
US 6542312	B1	20030401	US 2000539134	A	20000330	200324	E
JP 3527130	B2	20040517	JP 199997426	A	19990405	200433	E
EP 1046940	B1	20060104	EP 2000107053	A	20000404	200603	E
DE 60025292	E	20060330	DE 60025292	A	20000404	200628	E
			EP 2000107053	A	20000404		

Priority Applications (no., kind, date): EP 2000107053 A 20000404; JP 199997426 A 19990405

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1046940	A2	EN	40	20	
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 2000292699	A	JA	23		
KR 2000071548	A	KO		20	
KR 340018	B	KO			Previously issued patent KR 2000071548
JP 3527130	B2	JA	22		Previously issued patent JP 2000292699
EP 1046940	B1	EN			
Regional Designated States,Original: DE FR GB					
DE 60025292	E	DE			Application EP 2000107053 Based on OPI patent EP 1046940

Zoom lens for video camera has four lens groups disposed from object side to image plane side, with 2nd having aspherical surface, 3rd three lenses and 4th...

Original Titles:
...Zoom lens and video camera using the same...

...Objectif a focale variable et camera video l'utilisant...

...Zoom lens and video camera using the same...

...Objectif a focale variable et camera video l'utilisant...

...ZOOM LENS, AND VIDEO CAMERA USING ZOOM LENS...

...Zoom lens and video camera using the same

Alerting Abstract ...NOVELTY - The zoom lens has four lens groups disposed from the object side to the image plane side, with the second (12) having an aspherical surface. The...
USE - As a zoom lens for a video camera...

Title Terms.../Index Terms/Additional Words: VIDEO ; ...

... OBJECT ;

Original Publication Data by Authority

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

WO 1999063380	A1	19991209	WO 1999JP2910	A	19990531	200010	B
JP 11344669	A	19991214	JP 1998151361	A	19980601	200010	E
JP 2000298235	A	20001024	JP 1999108482	A	19990415	200059	E
EP 1103834	A1	20010530	EP 1999922617	A	19990531	200131	E
			WO 1999JP2910	A	19990531		
US 20050195482	A1	20050908	WO 1999JP2910	A	19990531	200559	E
			US 2000701754	A	20001201		
			US 200567432	A	20050222		
US 20050270646	A1	20051208	WO 1999JP2910	A	19990531	200581	E
			US 2000701754	A	20001201		
			US 200566515	A	20050222		
EP 1650594	A2	20060426	EP 1999922617	A	19990531	200628	E
			EP 200526493	A	19990531		
EP 1666946	A2	20060607	EP 1999922617	A	19990531	200638	E
			EP 200526492	A	19990531		

Priority Applications (no., kind, date): JP 1998302109 A 19981023; JP 1998151361 A 19980601; JP 1999108482 A 19990415

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1999063380	A1	JA	200	94	
National Designated States,Original: US					
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
JP 11344669	A	JA	19		
JP 2000298235	A	JA	28		
EP 1103834	A1	EN			PCT Application WO 1999JP2910 Based on OPI patent WO 1999063380
Regional Designated States,Original: DE FR GB NL					
US 20050195482	A1	EN			C-I-P of application WO 1999JP2910 C-I-P of application US 2000701754
US 20050270646	A1	EN			C-I-P of application WO 1999JP2910 C-I-P of application US 2000701754
EP 1650594	A2	EN			Division of application EP 1999922617 Division of patent EP 1103834
Regional Designated States,Original: DE FR GB NL					
EP 1666946	A2	EN			Division of application EP 1999922617 Division of patent EP 1103834
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					

Zoom lens system for video camera with shaking compensation

Original Titles:
...ZOOM LENS AND VIDEO CAMERA COMPRISING THE SAME...

...OBJECTIF A DISTANCE FOCALE VARIABLE ET CAMERA VIDEO LE COMPORTANT...

...Zoom lens and video camera comprising the same...

...Objectif a focale variable et camera video la comprenant...
...ZOOM LENS AND VIDEO CAMERA USING THE SAME...

...ZOOM LENS AND VIDEO CAMERA USING THE SAME...

...Zoom lens, still image camera comprising the zoom lens, and video camera comprising the zoom lens...

...Zoom lens and video camera comprising the same...

...ZOOM LENS AND VIDEO CAMERA COMPRISING THE SAME...

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...magnification varying action exhibited when moving along the optical axis, a third group of lenses (13) fixed to the image plane and having a positive refractive power, and a fourth group of lenses (14) movable along the optical axis so as to maintain the image plane moving with the movements of the second group of lenses (13) and of the object in a fixed position from a reference plane. Hence the movement of the image due...

...optical axis. The size is reduced and the aberrations are small because the whole groups whose optical performance is united are decentered....
Claims:
...keep the image plane varied by a shift of the second lens group and an object at a predetermined position from a reference surface,</br>the first, second, third and fourth lens groups being disposed from the object side in this order ,</br>wherein the entire third lens group is moved vertically with respect to the optical axis...

...keep the image plane varied by a shift of the second lens group and an object at a predetermined position from a reference surface, the first , second, third, fourth and fifth lens groups being disposed from the object side in this order,</br>wherein the third lens group is moved vertically with respect to the optical axis so as to correct movement of an...

...a focal length fw of an entire system at the wide-angle end and a distance BF between the final surface of the lens and the image plane in the air satisfy the following conditional expression[MF IMGB0129...

...said first, second, third and fourth lens groups are disposed in this order from an object side; andwherein said third lens group is vertically movable with respect to the optical...

.....keep the image plane varied by a shift of the second lens group and an object at a predetermined position from a reference surface,the first, second, third and fourth lens groups being disposed from the object side in this order,wherein the entire third lens group is moved vertically with respect to the optical axis so as to correct a movement of an image during camera shake; and a shifting amount Y of the third lens group at a focal length f of the entire system when correcting camera shake, a shifting amount Yt of the third lens group at a telephoto end, and a focal length ft of the telephoto end satisfy the following conditional expressions</br> Yt >Y;and </br>(Y/Yt)/(f/ft)<1.5.

32/3,K/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008933053
WPI ACC NO: 1998-484636/199842
Related WPI Acc No: 1998-471267
XRPX Acc No: N1998-378181
Single focal lens system for video camera, telecamera - has optical diffraction element that is formed on surface of second lens such that its magnifying power of element is set within 0.01-0.45
Patent Assignee: MINOLTA CAMERA KK (MIOC); MINOLTA CO LTD (MIOC)
Inventor: KOHNO T; KONO T
Patent Family (4 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
JP 10206726	A	19980807	JP 19979449	A	19970122	199842	B
US 5999334	A	19991207	US 19986342	A	19980113	200004	E
US 20020018305	A1	20020214	US 19986342	A	19980113	200214	E
			US 1999419031	A	19991015		
US 6515809	B2	20030204	US 19986342	A	19980113	200313	E

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

US 1999419031 A 19991015

Priority Applications (no., kind, date): JP 19974273 A 19970114; JP 19979449 A 19970122

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 10206726	A	JA	10	12	
US 20020018305	A1	EN			Division of application US 19986342
					Division of patent US 5999334
US 6515809	B2	EN			Division of application US 19986342
					Division of patent US 5999334

Single focal lens system for video camera, telecamera...

Alerting Abstract ...The system has a pair of lens (G1,G2) which are arranged sequentially at the object side. The second lens has positive refractive power. An optical diffraction element is formed on...

...The absolute value of the ratio of focal distance of two lenses is set lesser than 0.6. The absolute value of ratio of magnifying power of the optical diffraction element and the whole system is...

Title Terms.../Index Terms/Additional Words: VIDEO ;

Original Publication Data by Authority

Original Abstracts:
A lens system has the first and second lens elements from the object side. The first lens element has a negative optical power. The second lens element has a positive optical power...

...Yprime<0.5, 0.5<Pf/f<1.0. In the conditions, PRL represents a distance in a direction perpendicular to the optical axis between the optical axis and an incident position where a lower ray of a most off-axial...

...A lens system has the first and second lens components from the object side. The first lens component has a negative optical power. The second lens component has a positive optical power. The lens system fulfills the conditions: 0.0<PRL/Yprime<0.5, 0.5<Pf/f<1.0. In the conditions, PRL represents a distance in a direction perpendicular to the optical axis between the optical axis and an incident position where a lower ray of a most off-axial rays enters said second lens component, Yprime represents a largest image height, f represents a focal length of the...

...A lens system has the first and second lens components from the object side. The first lens component has a negative optical power. The second lens component has a positive optical power. The lens system fulfills the conditions: 0.0<PRL/Yprime<0.5, 0.5<Pf/f<1.0. In the conditions, PRL represents a distance in a direction perpendicular to the optical axis between the optical axis and an incident position where a lower ray of a most off-axial rays enters said second lens component, Yprime represents a largest image height, f represents a focal...
Claims:
What is claimed is:1. A lens system comprising, from the object side:a first lens element having a negative optical power; and asecond lens element having a positive optical power,wherein said lens system...

...0< PRL/Yprime <0.50.5<Pf/f <1.0wherePRL represents a distance in a direction perpendicular to the optical axis between the optical axis and an incident position where a lower ray of a most off -axial rays enters

said second lens element,Yprime represents a largest image height,f represents a focal length of the entire lens system, andPf represents a focal length of said second lens element...

...A lens system comprising, from the object side:a first lens component having a negative optical power; and a second lens component...

...0.0<PRL/Yprime<0.50.5<Pf/f<1.0 wherePRL represents a distance in a direction perpendicular to the optical axis between the optical axis and an incident position where a lower ray of a most off-axial ray enters the ...

...andPf represents a focal length of the second lens component; andsaid lens system including no other lens components than said first lens component and said second lens component...

...What is claimed is:1. A lens system comprising, from the object side:a first lens element,a second lens element having a positive optical power, and...

...system,phir represents the optical power of diffraction of said surface,f1 represents a focal length of said first lens element, andf2 represents a focal length of said second lens

32/3,K/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008623096 - Drawing available
WPI ACC NO: 1998-159644/199814
XRPX Acc No: N1998-126801
Three- dimensional size measurement method for remote measurement of inaccessible objects - using cameras which can be moved among any number of predetermined relative viewing positions
Patent Assignee: SCHAACK D F (SCHA-I)
Inventor: SCHAACK D F
Patent Family (6 patents, 23 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 1998007001	A1	19980219	WO 1997US15206	A	19970808	199814	B
AU 199741684	A	19980306	AU 199741684	A	19970808	199830	E
GB 2333595	A	19990728	WO 1997US15206	A	19970808	199932	E
			GB 19993366	A	19990216		
US 6009189	A	19991228	US 1996689993	A	19960816	200007	E
US 6121999	A	20000919	US 1997871289	A	19970609	200048	E
GB 2333595	B	20010321	WO 1997US15206	A	19970808	200117	E
			GB 19993366	A	19990216		

Priority Applications (no., kind, date): US 1996689993 A 19960816; US 1997871289 A 19970609

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1998007001	A1	EN	109	47	

National Designated States,Original: AU CA CN DE GB JP MX
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

AU 199741684	A	EN	Based on OPI patent WO 1998007001
GB 2333595	A	EN	PCT Application WO 1997US15206
			Based on OPI patent WO 1998007001
GB 2333595	B	EN	PCT Application WO 1997US15206
			Based on OPI patent WO 1998007001

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0008396495 - Drawing available
WPI ACC NO: 1997-512898/199747
XRPX Acc No: N1997-426908
Zoom lens for video camera - has four lens groups, with the focal lengths of first and second groups satisfying inequality with wide angle end's focal length and view angle
Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU); MATSUSHITA ELECTRIC IND CO LTD (MATU)
Inventor: II H; II T; KAKIMOTO T; OKAYAMA H; ONO S
Patent Family (9 patents, 19 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 1997038340	A1	19971016	WO 1997JP1210	A	19970408	199747	B
JP 9281392	A	19971031	JP 1996114092	A	19960410	199803	E
EP 841585	A1	19980513	EP 1997914637	A	19970408	199823	E
			WO 1997JP1210	A	19970408		
US 5978152	A	19991102	WO 1997JP1210	A	19970408	199953	E
			US 1998973731	A	19980212		
KR 1999022810	A	19990325	WO 1997JP1210	A	19970408	200024	E
			KR 1997709279	A	19971210		
KR 282465	B	20010302	WO 1997JP1210	A	19970408	200214	E
			KR 1997709279	A	19971210		
JP 3311584	B2	20020805	JP 1996114092	A	19960410	200258	E
EP 841585	B1	20031112	EP 1997914637	A	19970408	200380	E
			WO 1997JP1210	A	19970408		
DE 69726096	E	20031218	DE 69726096	A	19970408	200407	E
			EP 1997914637	A	19970408		
			WO 1997JP1210	A	19970408		

Priority Applications (no., kind, date): JP 1996114092 A 19960410

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1997038340	A1	JA	98	32	
National Designated States,Original: KR US					
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
JP 9281392	A	JA	28		
EP 841585	A1	EN	66		PCT Application WO 1997JP1210 Based on OPI patent WO 1997038340
Regional Designated States,Original: DE FR GB					
US 5978152	A	EN			PCT Application WO 1997JP1210 Based on OPI patent WO 1997038340
KR 1999022810	A	KO		32	PCT Application WO 1997JP1210 Based on OPI patent WO 1997038340
KR 282465	B	KO			PCT Application WO 1997JP1210 Previously issued patent KR 99022810 Based on OPI patent WO 1997038340
JP 3311584	B2	JA	30		Previously issued patent JP 09281392
EP 841585	B1	EN			PCT Application WO 1997JP1210 Based on OPI patent WO 1997038340
Regional Designated States,Original: DE FR GB					
DE 69726096	E	DE			Application EP 1997914637 PCT Application WO 1997JP1210 Based on OPI patent EP 841585 Based on OPI patent WO 1997038340

Zoom lens for video camera...

Alerting Abstract ...less than 59(deg). It comprises one fixed lens group (1) which has, from the object side, a negative refractive lens (1a), a positive refractive lens (1b) and a positive refractive...

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...lens unit being aspherical, wherein said fourth lens unit comprises at least one lens element of the fourth lens unit, at least one of the surfaces of said lens element of...

32/3,K/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008365382
WPI ACC NO: 1997-479652/199744
XRAM Acc No: C1997-152300
XRPX Acc No: N1997-400108
Rear focus zoom lens for still or video camera having high variable magnification - having smaller lighter weight fourth lens group consisting of negative-meniscus lens element and positive lens element made of synthetic resins chosen to make the temperature-dependent change in focal length relatively small
Patent Assignee: SONY CORP (SONY)
Inventor: NAKAMURA A
Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 5671062	A	19970923	US 1992883215	A	19920514	199744	B
			US 1994538376	A	19941011		
KR 271956	B	20001115	KR 19926774	A	19920422	200170	E

Priority Applications (no., kind, date): JP 1991116150 A 19910521

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5671062	A	EN	33	25	Continuation of application US 1992883215
KR 271956	B	KO			Previously issued patent KR 92022034

Rear focus zoom lens for still or video camera having high variable magnification...

Alerting Abstract ...Zoom lens has, extending along a common optical axis and from an object side, a first lens group (1)with positive refracting power consisting of two lens elements...

...consists of a negative-meniscus lens element (41) having a convex surface directed toward the object side and a positive lens element (42). The elements are successively arranged along the optical...

...rear-focus zoom lens of high variable magnification for use on a still camera or video camera...

Documentation Abstract
Zoom lens has, extending along a common optical axis and from an object side, a first lens group (1)with positive refracting power consisting of two lens elements...

...consists of a negative-meniscus lens element (41) having a convex surface directed toward the object side and a positive lens element (42). The elements are successively arranged along the optical...

...rear-focus zoom lens of high variable magnification for use on a still camera or video camera...

...made of respective synthetic resins which are defined by a temperature

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parameter vT having an equation : vT ={(dNd/dT)/(Nd - 1) - alpha}-1, where Nd is a refractive index with...

...a temperature gradient of the refractive index, and alpha is a coefficient of linear expansion. The absolute value of the temperature parameter of the material of which the negative-meniscus lens element is made is smaller than the absolute value of the temperature parameter of the material of which the positive lens element is made so...

Title Terms.../Index Terms/Additional Words: VIDEO ;

Original Publication Data by Authority

Original Abstracts:
...second, third, and fourth lens groups are successively arranged in the order named from an object side. The first and third lens groups are fixed in position. The second lens group is movable for varying...

...fourth lens group comprises a negative-meniscus lens having a convex surface directed toward the object side and a positive lens, the negative-meniscus lens and the positive lens being successively arranged in the order named from the object side. The negative- meniscus lens and the positive lens can be either joined to or separated from each other...
Claims:
...power, said first lens group consisting of two lens elements arranged along a common optical axis ;a second lens group having a negative refracting power;a third lens group having a positive refracting power, said...

...refracting power;said first, second, third, and fourth lens groups being successively arranged along said optical axis in the order named from an object side, said first and third lens groups being fixed in position, said second lens group being movable for varying a magnification, and said fourth lens group being...

...group consists of a negative-meniscus lens element having a convex surface directed toward the object side and a positive lens element, said negative-meniscus lens element and said positive lens element being successively arranged along said optical axis in the order named from the object side, and at least one of said negative-meniscus lens element or said positive lens element being made of a synthetic resin.

32/3,K/14 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0007675921 - Drawing available
WPI ACC NO: 1996-296942/199630
XRPX Acc No: N1996-249816
Rear focus zoom lens for video camera - has third group lens which moves to produce monotonous relation between optical axis and focal distance of all faction and second group lens rear focuses and magnifies with negative refraction power
Patent Assignee: OLYMPUS OPTICAL CO LTD (OLYU)
Inventor: MIHARA S
Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
JP 8129132	A	19960521	JP 1994266659	A	19941031	199630	B
US 5808810	A	19980915	US 1995550832	A	19951031	199844	E

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said...

...pixel datum in its respective memory address; d. comparing each image pixel datum to a **threshold** to identify linear spot segments wherein the pixel data from two or more pixels located in **adjacent** columns in the image exceed said **threshold** , said linear spot segments representing a portion of said object; and e. identifying and **storing** the respective **x - coordinates** and **y - coordinates** associated with only the first pixel and the last pixel in **each** linear spot **segment** in said **image** pixel data from the respective memory address...
...comprised of a plurality of columns and rows whereby each image pixel has an associated **x - coordinate** and **y - coordinate** ; b. generating a respective memory address for each image pixel datum in said array of image pixel data and maintaining information in association with each said memory **address** **identifying** the **position** **within** said image of its respective image pixel datum; c. storing each image pixel datum in its respective memory address; d. comparing each image pixel datum to a **threshold** to identify linear spot segments wherein the pixel data from two or more pixels located in adjacent columns in the image exceed said **threshold** , said linear spot segments representing a portion of said object; and e. identifying **and** storing the respective **x - coordinates** and **y - coordinates** associated with only the first pixel and the last pixel in each linear spot segment in said image pixel data from the respective memory address.

40/3,K/3 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2007 The Thomson Corporation. All rts. reserv.

0013227660 - Drawing available
WPI ACC NO: 2003-312470/200330
XRPX Acc No: N2003-248878
Dynamic picture generating program storage medium for video games, using instructions for estimating moving direction and amount of vertices using weighted average of connection parameter and reference moving values
Patent Assignee: KONAMI CO LTD (KONA-N); KONAMI COMPUTER ENTERTAINMENT OSAKA KK (KONA-N); KONAMI KK (KONA-N)
Inventor: NAGAYAMA K
Patent Family (8 patents, 32 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20030032482	A1	20030213	US 2002208385	A	20020729	200330	B
EP 1288866	A2	20030305	EP 200217664	A	20020806	200330	E
JP 2003051030	A	20030221	JP 2001240447	A	20010808	200330	E
JP 3564440	B2	20040908	JP 2001240447	A	20010808	200459	E
EP 1288866	B1	20050511	EP 200217664	A	20020806	200536	E
DE 60204089	E	20050616	DE 60204089	A	20020806	200540	E
			EP 200217664	A	20020806		
US 6972766	B2	20051206	US 2002208385	A	20020729	200580	E
DE 60204089	T2	20060202	DE 60204089	A	20020806	200612	E
			EP 200217664	A	20020806		

Priority Applications (no., kind, date): US 2002208385 A 20020729; JP 2001240447 A 20010808

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030032482	A1	EN	20	8	
EP 1288866	A2	EN			
Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
JP 2003051030	A	JA	15		
JP 3564440	B2	JA	20		Previously issued patent JP 2003051030

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EP 1288866 B1 EN
Regional Designated States,Original: DE FR GB
DE 60204089 E DE Application EP 200217664
Based on OPI patent EP 1288866
DE 60204089 T2 DE Application EP 200217664
Based on OPI patent EP 1288866

Dynamic picture generating program storage medium for video games, using instructions for estimating moving direction and amount of vertices using weighted average of connection parameter and reference moving values

Alerting Abstract ...NOVELTY - The medium stores instructions for estimating the movement direction and moving amount of vertices of each polygon of a model based on the weighted average of connection...

...ordinates of vertices are computed after a prescribed time from vertex co-ordinates, vertex movement amount and vertex movement direction....USE - Dynamic picture generation for video games or computer graphics, in which the surface of a model built up from a...

Title Terms.../Index Terms/Additional Words: VIDEO ; ...

... AMOUNT ; ...

... VALUE

Original Publication Data by Authority

Original Abstracts:
...a surface of an object realistically, a dynamic picture image generation device comprises a movement amount computation unit 310, which computes the movement amount for a vertex based on the connectedness, which is the degree of connection of a vertex to each skeleton, and on the reference movement amount , set for each skeleton of a model, which is the maximum value of the movement amount of a vertex connected only to the skeleton; a direction computation unit 311, which computes the movement direction of...

...312, which computes the coordinates of a vertex after a prescribed time, using the movement amount computed by the movement amount computation unit 310 and the movement direction computed by the direction computation unit 311...

...undulation of a surface of an object realistically, a dynamic picture image generation device comprises a movement amount computation unit 310, which computes the movement amount for a vertex based on the connectedness, which is the degree of connection of a vertex to each skeleton, and on the reference movement amount , set for each skeleton of a model, which is the maximum value of the movement amount of a vertex connected only to the skeleton; a direction computation unit 311, which computes the movement direction of vertices comprised by each polygon; and a...

...312, which computes the coordinates of a vertex after a prescribed time, using the movement amount computed by the movement amount computation unit 310 and the movement direction computed by the direction computation unit 311.

...

...of a surface of an object realistically, a dynamic picture image generation device comprises a movement amount computation unit

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storage means for storing connectedness, which is...
...or more of said vertices connects to a plurality of said skeletal links;reference movement amount storage means, set for each skeletal link, for storing the amount of reference movement which is the maximum amount of movement of a vertex connected only to the skeletal link ;movement amount computation means for computing the amount of movement of a vertex based on said connectedness and said reference movement amounts;direction...

...each polygon; and,coordinate computation means for computing the coordinates of vertices after a prescribed amount of time from said vertex coordinates , said movement amounts, and said movement directions.

40/3,K/4 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008734838 - Drawing available
WPI ACC NO: 1998-276779/199825
XRPX Acc No: N1998-217688
Attribute information providing apparatus for multimedia system - has input unit to input relative co-ordinates of object which comprises listening point and view point
Patent Assignee: FUJITSU LTD (FUIT)
Inventor: KIMURA A; KIMURA S; MATSUMOTO C; SATO Y; WASHIO N; YAMAMOTO E
Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
JP 10091391	A	19980410	JP 1996246642	A	19960918	199825	B
US 6208346	B1	20010327	US 1997782346	A	19970113	200119	E

Priority Applications (no., kind, date): JP 1996246642 A 19960918

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 10091391	A	JA	27	32	

Original Publication Data by Authority

Original Abstracts:
...a data storage unit for storing plural pieces of data of attribute information (audio information, video information, etc.) of the object according to plural sets of relative coordinates corresponding to the...

...position of the object to the viewer point is presented in real time if the object moves very fast. The data preparing unit, when receiving the relative coordinates of the object to...
Claims:
An attribute information presenting apparatus for presenting audio or video information about an object at a reference point according to a relative distance and direction of the object to the reference point, the apparatus comprising: storing means for storing audio or video information about the object , wherein the object is present at a plurality of relative positions and directions to the reference point; input means for inputting relative coordinates of the object to the reference point; and reading means for reading audio or video information from the storing means according to the relative coordinates input by the input means.

40/3,K/5 (Item 4 from file: 350)

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DIALOG(R)File 350:Derwent WPIX

0007168669 - Drawing available
WPI ACC NO: 1995-208752/199528
XRPX Acc No: N1995-163576
Image analysis system for wire bonding appts - has pair of cameras vertically aligned detecting bonding objects and calculating their distortion from design positions to give XY table coordinates
Patent Assignee: NEC CORP (NIDE)
Inventor: KONO T
Patent Family (6 patents, 5 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 657917	A1	19950614	EP 1994119263	A	19941206	199528	B
JP 7161759	A	19950623	JP 1993305322	A	19931206	199534	E
US 5516023	A	19960514	US 1994349522	A	19941205	199625	E
EP 657917	B1	19990602	EP 1994119263	A	19941206	199926	E
DE 69418837	E	19990708	DE 69418837	A	19941206	199933	E
			EP 1994119263	A	19941206		
KR 155181	B1	19981201	KR 199433233	A	19941206	200031	E

Priority Applications (no., kind, date): JP 1993305322 A 19931206
Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 657917	A1	EN	21	13	
Regional Designated States,Original: DE FR GB					
JP 7161759	A	JA	12	13	
US 5516023	A	EN	19	13	
EP 657917	B1	EN			
Regional Designated States,Original: DE FR GB					
DE 69418837	E	DE			Application EP 1994119263
					Based on OPI patent EP 657917

Image analysis system for wire bonding appts...

Alerting Abstract ...The IC (11) is held in a carrier (26). Image processing units (14,15) provide image analysis .
...

...ADVANTAGE - Provides improved accuracy of bonding and reduces the amount of time required to detect bonding points.

Original Publication Data by Authority

Original Abstracts:
...thermal deformation,thermal expansion, or vibration remaining in the image pickup unit. In addition, the amount of time required for the detecting operation can be reduced...

...thermal deformation thermal expansion, or vibration remaining in the image pickup unit. In addition, the amount of time required for the detecting operation can be reduced.
Claims:
...electrode pads of an IC chip and corresponding inner leads of an IC package; a moving table for moving said bonding tool to align said bonding tool to said bonding point; an image pickup...

...image data for all of positions of said wire bond objects; a memory section for storing first coordinate data representing design position of each of said wire bond objects; an image processing unit including an identifying section for identifying each of said wire bond objects based on said combination of image data to obtain second...

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...of said wire bond objects from corresponding one of said design positions by comparing said first coordinate data with said second coordinate data; and a control unit for controlling the movement of said moving table based on said deviation to align said bonding tool to each said bonding point for carrying out a bonding...

40/3,K/6 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0006255081 - Drawing available
WPI ACC NO: 1993-046582/199306
Related WPI Acc No: 1993-077930
XRPX Acc No: N1993-035689
Driving simulation system for two-wheeled vehicle, e.g. motorcycle - uses video recorder to record images presented in front of driver mounted on motion simulator, for later analysis
Patent Assignee: HONDA GIKEN KOGYO KK (HOND)
Inventor: ISENO M; MITSURU I; MIYAMARU Y; YAMASAKI G
Patent Family (4 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
DE 4221558	A1	19930204	DE 4221558	A	19920701	199306	B
DE 4221558	C2	19960125	DE 4221558	A	19920701	199608	E
US 5547382	A	19960820	US 1990545525	A	19900618	199639	E
			US 1992921853	A	19920729		
			US 1995420432	A	19950410		
JP 3499572	B2	20040223	JP 1991207058	A	19910819	200416	E

Priority Applications (no., kind, date): JP 1991207056 A 19910819; JP 1991188991 A 19910729; JP 1991207058 A 19910819

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
DE 4221558	A1	DE	24	22	
DE 4221558	C2	DE	17	12	
US 5547382	A	EN	36	46	C-I-P of application US 1990545525 Continuation of application US 1992921853
JP 3499572	B2	JA	13		Previously issued patent JP 05088606

...uses video recorder to record images presented in front of driver mounted on motion simulator, for later...

Alerting Abstract ...An image recording device e.g. a video recorder is used to record the images shown on the display. The recorded images may...

Title Terms.../Index Terms/Additional Words: VIDEO ;

Original Publication Data by Authority

Original Abstracts:
...and ridden upon by a person. Responsive to operation by the person riding, the model motorcycle is moved by a driven mount to pitch, yaw and roll to simulate riding conditions. A moving...

...scenery which would be seen from a running motorcycle is displayed in front of the person riding. The moving image is varied in response to driving conditions of the model motorcycle and is provided by a display with...

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...of a two-wheeled simulation vehicle. The image is formed by a background image generator. Video signals fed from the background image generator are displayed as images by a background image display, whereby background images...
Claims:
...simulate running conditions;</br>a backward image generator including:</br>(a) a first image control which generates first coordinate information indicative of a running position of another vehicle moving on an imaginary traveling map...

...first frame information designating an image of another vehicle of a size proportional to the distance between said simulation vehicle and said another vehicle, and second frame information designating the course image in the rear view corresponding to said second coordinate information;</br>(c) a first image producer having stored pre- recorded images of said another vehicle for reproducing an image of said another vehicle selected in...

...pre-recorded images of said another vehicle;</br>(d) a second image producer having stored pre- recorded course images in the rear view for reproducing, on the basis of said speed information, a course image selected in accordance with said second frame information out of said pre-recorded course images; and</br>(e) an image combining means for combining said output images from said first and second image producers and thereby forming said backward image; and</br>backward image display means provided in said simulation vehicle for displaying, as images, video signals fed from said backward image generator.

40/3,K/7 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0005042982 - Drawing available
WPI ACC NO: 1990-024491/199004
Ultrasonic examination result analysing and evaluating method - compares imaginary echo signals with actual echo pulse signals electronically stored and eliminates echo flaws
Patent Assignee: AKAD TEKN VIDENSKABER (TEVI-N); AKAD TEKNISKE VIDEN (TEVI-N)
Inventor: KRISTENSEN W D; LUND S A; NIELSEN B E
Patent Family (4 patents, 11 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 352117	A	19900124	EP 1989307401	A	19890720	199004	B
US 4911014	A	19900327	US 1988223014	A	19880722	199018	E
EP 352117	B1	19930127	EP 1989307401	A	19890720	199304	E
DE 68904613	E	19930311	DE 68904613	A	19890720	199311	E
			EP 1989307401	A	19890720		

Priority Applications (no., kind, date): US 1988223014 A 19880722

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 352117	A	EN	17	5	
Regional Designated States,Original: AT BE CH DE FR GB IT LI NL SE					
EP 352117	B1	EN	17	5	
Regional Designated States,Original: AT BE CH DE FR GB IT LI NL SE					
DE 68904613	E	DE			Application EP 1989307401 Based on OPI patent EP 352117

Alerting Abstract ...position and echo pulse signals are electronically stored, processed and used for the display of video imagees presenting

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~~Patent Literature Full-Text

File 348:EUROPEAN PATENTS 1978-2007/ 200742
(c) 2007 European Patent Office
File 349:PCT FULLTEXT 1979-2007/UB=20071011UT=20071004
(c) 2007 WIPO/Thomson

Set	Items	Description
S1	197184	VIDEO? OR IMAGE()ANALYSIS
S2	1362640	OBJECT? ? OR SUBJECT? ? OR PERSON? ?
S3	591483	COORDINATE OR COORDINATES OR AXIS? ?
S4	85978	(REFERENCE OR FIRST OR 1ST OR INITIAL OR ORIGINAL OR BASELINE OR X()Y OR X OR Y)(1W)S3 OR XREF?
S5	7485	S4(5N)(DETERMIN? OR IDENTIF? OR ASSIGN??? OR DESIGNAT??? OR SELECT???)
S6	48	TRAJECTORY(1N)(LIST? ? OR FILE? ? OR REGISTR? OR SCHEDULE?)
S7	4	S6(5N)(STOR??? OR RECORD??? OR ADD OR ADDED OR ADDING)
S8	411	S4(4N)(REPLAC? OR UPDAT? OR EXCHANG?)
S9	31485	(CURRENT OR PRESENT OR NEW OR SECOND OR 2ND OR SUBSEQUENT OR SUCCESSIVE OR FOLLOWING OR UPDATED)(1N)S3 OR XNEW?
S10	347548	(PREDETERMIN? OR GIVEN OR SET OR PRESET OR PRESELECT? OR SPECIFIC OR SPECIFIED)(2N)(DISTANCE OR THRESHOLD OR AMOUNT OR VALUE)
S11	43664	S10(3N)(GREATER OR LARGER OR BIGGER OR MORE OR EQUAL)
S12	659354	ABSOLUTE()VALUE? ? OR ALGORITHM? ? OR EQUATION? ? OR FORMULA? ?
S13	350	AU=(COHEN, R? OR COHEN R? OR BRODSKY, T? OR BRODSKY T?)
S14	58	S13 AND S1
S15	25	S14 AND S3
S16	7	S15 AND IC=H04N?
S17	45245	S1(S)S2
S18	56	S17(S)S5
S19	1	S18(S)S7
S20	1	S18(S)S6
S21	1	S20 NOT S16
S22	20	S18 AND S9
S23	6	S22 AND S11
S24	5	S23 NOT (S16 OR S21)
S25	13	S22(S)S12
S26	9	S25 NOT (S16 OR S21 OR S24)

16/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01528330
METHOD FOR MULTIPLE VIEW SYNTHESIS
VERFAHREN ZUR MEHRFACHANSICHTSSYNTHESE
PROCEDE DE SYNTHESE DE VUES MULTIPLES
PATENT ASSIGNEE:
Koninklijke Philips Electronics N.V., (200769), Groenewoudseweg 1, 5621 BA Eindhoven, (NL), (Proprietor designated states: all)
INVENTOR:
LEE, Mi-Suen, Prof. Holstlaan 6, NL-5656 AA Eindhoven, (NL)
BRODSKY, Tomas , Prof. Holstlaan 6, NL-5656 AA Eindhoven, (NL)
WEINSHALL, Daphna, Prof. Holstlaan 6, NL-5656 AA Eindhoven, (NL)
TRAJKOVIC, Miroslav, Prof. Holstlaan 6, NL-5656 AA Eindhoven, (NL)
LEGAL REPRESENTATIVE:
Groenendaal, Antonius W. M. (59381), Philips Intellectual Property & Standards P.O. Box 220, 5600 AE Eindhoven, (NL)
PATENT (CC, No, Kind, Date): EP 1393581 A1 040303 (Basic)
EP 1393581 B1 060222
WO 2002091754 021114

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Claims

English Abstract
A method, computer program product, and computer system for processing video frames. A current frame is divided into M blocks that include at least two differently...

French Abstract
...concerne un procede, un produit logiciel et un systeme informatique destines au traitement de trames video . La trame courante est divisee en M blocs qui comprennent au moins deux blocs de...

Detailed Description
OVERLAPPED BLOCK MOTION COMPENSATION FOR VARIABLE SIZE BLOCKS IN THE CONTEXT OF MCTF SCALABLE VIDEO CODERS
Related Application
The present invention claims priority to United States Provisional Application No.

60...

...filed October 17, 2003 and entitled "Overlapped Block Motion Compensation (OBMC) For MCTF-Type Scalable Video Coders" and is incorporated herein by reference in its entirety. The present invention is also...

...present invention relates generally to a method, computer program product, and computer system for processing video frames, and more specifically to a method, system, computer program product, and computer system for...

...OBMQ for variable size blocks in the context of motion compensated temporal filtering (MCTF) scalable video coders.
2. Related Art
Currently used variable size block matching (VSBM) motion in the context of scalable video coders tends to create poor motion matches at block boundaries, resulting in low coding efficiency...

...accuracy of motion matches at block boundaries provided by VSBM in the context of scalable video coders than currently exists in the related art.

Summary of the Invention
The present invention provides a method for processing video frames, said method comprising the steps of.

providing a current frame divided into blocks that...

...said computer readable program code comprising an algorithm adapted to implement a method for processing video frames, said method comprising the steps ofproviding a current frame divided into blocks that include...

...memory unit containing instructions that when executed by the processor implement a method for processing video frames, said method comprising the computer implemented steps ofproviding a current frame divided into blocks...

...at block boundaries provided by variable size block matching (VSBM) in the context of scalable video coders than currently exists in the related art.

Brief Description of the Drawinsts
FIG. 1 depicts a video coding system comprising a Motion Compensated Temporal Filtering (MCTF) processor, in accordance with embodiments of...

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Priority Application: US 2001808377 20010314
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
JP KR
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
Publication Language: English
Filing Language: English
Fulltext Word Count: 4784

Inventor(s):
BRODSKY Tomas ...
Main International Patent Class (v7): H04N-013/00
Fulltext Availability:
Detailed Description
Claims

Detailed Description
... be still cameras where the at least one stereo image is a still image or video cameras where the at least one stereo image is a sequence of video images.

Additionally, in either of the first or second configurations of the stereo camera system...June 1998; and A. Lipton et al., "Moving Target Classification and Tracking from Real-Time Video ," Proc. IEEE Workshop on Application of Computer Vision, pp. 8-14, Oct 1998.

The recognition...

...image produced thereby is a still image or the camera II 2 can be a video camera where the stereo image produced thereby is a sequence of video images.

5 The adjusting means 108 in such a first configuration preferably comprises adjustment means...a, + a2) - (1 - 1) (3)
Zmin Zmax
Assuming pinhole camera model: (and symmetrically for Y- coordinates)
f -dx < Xres (4)
Zmin 2
where dx = Xax - X. and Xmin and Xnax are...

...Fig. 2, each of the cameras 120, 122 can be either a still image or video image camera.

The ad usting means 108 in such a second configuration preferably comprises adjustment...stereo camera system I 00 can provide improved resolution as a preprocessing step for further image analysis steps which demand good resolution in three dimensions (x, y, and depth), such as face...

Claim
... 4 The stereo camera system of claim 2, wherein the camera (I 12) is a video camera and the at least one stereo image is a sequence of video images.

5 The stereo camera system of claim 2, wherein the adjusting means (1 08 ...

...camera system of claim 7, wherein the two or more cameras (I 20, 122) are video cameras and the at least one stereo image is a sequence of video images.

10 The stereo camera system of claim 7, wherein the adjusting means (I 08 ...

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each cylindrical lens array, the array velocity is described by the equation V=Acosin(wt), where A=3x10-3 meters and o)=370 radians/second (i.e...will influence the number of substantially different time-varying speckle-noise patterns generated at the image detection array during each photo-integration time period thereof: (i) the spatial period of the ...motor 394 so that the PUB 393 produced therefrom is oriented substantially perpendicular to the axis of rotation of the motor 394, and is transmitted through each holographically-recorded cylindrical lens ...

26/3,K/6 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00847581 **Image available**
INTERACTIVE ORTHODONTIC CARE SYSTEM BASED ON INTRA-ORAL SCANNING OF TEETH
SYSTEME DE SOIN ORTHODONTIQUE INTERACTIF BASE SUR L'ANALYSE INTRA-BUCCALE DES DENTS
Patent Applicant/Assignee:
ORAMETRIX INC, 12740 Hillcrest Road, Suite 100, Dallas, TX 75230, US, US (Residence), US (Nationality)
Inventor(s):
RUBBERT Rudger, Leonhardyweg 41, 12101 Berlin, DE,
WEISE Thomas, Mehringdamm 91, 10965 Berlin, DE,
RIEMEIER Friedrich, Thomasiusstrasse 5, 10557 Berlin, DE,
SACHDEVA Rohit, 2605 Courtside Lane, Plano, TX 75093, US,
BUTSCHER Werner, Westfalenring 16b, 12207 Berlin, DE,
GEERDES Hans-Florian, Alt-Moabit 73, 10555 Berlin, DE,
IMGRUND Hans, Wilhelmshavenerstrasse 25, 10551 Berlin, DE,
PFEIL Lutz, An der Kolonnade 4, 10117 Berlin, DE,
SPORBERT Peer, Immanuelkirchstrasse 29, 10405 Berlin, DE,
KOUZIAN Dimitrij, Schlossstrasse 70, 12165 Berlin, DE,
LEICHNER Mario, Puschkinallee 95, 16540 Hohen Neuendorf, DE,
MAETZEL Stephan, Mittenwalder Strasse 7, 10961 Berlin, DE,
SEE Peter, Wonnichstrasse 111, 10317 Berlin, DE,
TROEGER Jens, Ebertystrasse 6, 10249 Berlin, DE,
Legal Representative:
FAIRHALL Thomas A (agent), McDonnell Boehnen Hulbert & Berghoff, 300 South Wacker, Suite 3200, Chicago, IL 60606, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200180761 A2-A3 20011101 (WO 0180761)
Application: WO 2001US11969 20010413 (PCT/WO US0111969)
Priority Application: US 2000552189 20000419; US 2000552190 20000419; US 2000560127 20000428; US 2000560128 20000428; US 2000560129 20000428; US 2000560130 20000428; US 2000560131 20000428; US 2000560132 20000428; US 2000560133 20000428; US 2000560134 20000428; US 2000560583 20000428; US 2000560584 20000428; US 2000560640 20000428; US 2000560641 20000428; US 2000560642 20000428; US 2000560643 20000428; US 2000560644 20000428; US 2000560645 20000428; US 2000560646 20000428; US 2000560647 20000428; US 2000613093 20000428; US 2000616093 20000428; US 2000616093 20000713
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

~~Non-Patent Literature Abstracts

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File   2:INSPEC 1898-2007/Oct W2
         (c) 2007 Institution of Electrical Engineers
File   6:NTIS 1964-2007/Nov W1
         (c) 2007 NTIS, Intl Cpyrght All Rights Res
File   8:Ei Compendex(R) 1884-2007/Oct W3
         (c) 2007 Elsevier Eng.  Info. Inc.
File  34:SciSearch(R) Cited Ref Sci 1990-2007/Oct W3
         (c) 2007 The Thomson Corp
File  35:Dissertation Abs Online 1861-2007/Jul
         (c) 2007 ProQuest Info&Learning
File  56:Computer and Information Systems Abstracts 1966-2007/Sep
         (c) 2007 CSA.
File  57:Electronics & Communications Abstracts 1966-2007/Sep
         (c) 2007 CSA.
File  65:Inside Conferences 1993-2007/Oct 29
         (c) 2007 BLDSC all rts. reserv.
File  95:TEME-Technology & Management 1989-2007/Oct W4
         (c) 2007 FIZ TECHNIK
File  99:Wilson Appl. Sci & Tech Abs 1983-2007/Sep
         (c) 2007 The HW Wilson Co.
File 144:Pascal 1973-2007/Oct W3
         (c) 2007 INIST/CNRS
File 239:Mathsci 1940-2007/Oct
         (c) 2007 American Mathematical Society
File 256:TecInfoSource 82-2007/Oct
         (c) 2007 Info.Sources Inc
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 2006 The Thomson Corp
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
         (c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2007/Oct 30
         (c) 2007 ProQuest Info&Learning
File 248:PIRA 1975-2007/Sep W4
         (c) 2007 Pira International
```

Set	Items	Description
S1	705235	VIDEO? ? OR IMAGE()ANALYSIS
S2	2839720	OBJECT? ? OR SUBJECT? ? OR PERSON? ?
S3	1039733	COORDINATE OR COORDINATES OR AXIS? ?
S4	20369	(REFERENCE OR FIRST OR 1ST OR INITIAL OR ORIGINAL OR BASELINE OR X()Y OR X OR Y)(1W)S3 OR XREF?
S5	646	S4(5N)(DETERMIN? OR IDENTIF? OR ASSIGN??? OR DESIGNAT??? OR SELECT???)
S6	117	TRAJECTORY(1N)(LIST? ? OR FILE? ? OR REGISTR? OR SCHEDULE?)
S7	5	S6(5N)(STOR??? OR RECORD??? OR SAVE? OR ADD OR ADDED OR ADDING)
S8	47	S4(4N)(REPLAC? OR UPDAT? OR EXCHANG?)
S9	12147	(CURRENT OR PRESENT OR NEW OR SECOND OR 2ND OR SUBSEQUENT OR SUCCESSIVE OR FOLLOWING OR UPDATED)(1N)S3 OR XNEW?
S10	75192	(PREDETERMIN? OR GIVEN OR SET OR PRESET OR PRESELECT? OR SPECIFIC OR SPECIFIED)(2N)(DISTANCE OR THRESHOLD OR AMOUNT OR VALUE)
S11	2532	S10(3N)(GREATER OR LARGER OR BIGGER OR MORE OR EQUAL)
S12	6703021	ABSOLUTE()VALUE? ? OR ALGORITHM? ? OR EQUATION? ? OR FORMULA? ?
S13	17185	AU=(COHEN, R? OR COHEN R? OR BRODSKY, T? OR BRODSKY T?)
S14	122	S13 AND S1
S15	25	S14 AND S2
S16	0	S15 AND S3
S17	0	S15 AND S6

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

```
S18         11   RD S15  (unique items)
S19      77668   S1 AND S2
S20          3   S19 AND S5
S21        132   S19 AND S4
S22          1   S21 AND S9
S23          2   S19 AND S6
S24          0   S21 AND S11
S25         22   S21 AND S12
S26         26   S20 OR S22 OR S23 OR S25
S27         21   RD  (unique items)
S28         21   S27 NOT S18
S29    3613208   MOVE? OR MOVING OR MOTION OR WALK?
S30      65797   S29(3N)S2
S31          0   S30 AND S7
S32       5860   S3(5N)(STOR??? OR RECORD??? OR SAVE? OR ADD OR ADDED OR AD-
                 DING)
S33         65   S30 AND S32
S34          0   S33 AND S11
S35         13   S33 AND S12
S36          5   RD  (unique items)
```

```
? t8/3,K/1     (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

09086787   INSPEC Abstract Number: B2004-10-6135C-180, C2004-10-5260D-076
  Title:  Real-time  object  segmentation and coding for selective-quality
 video  communications
  Author(s):  Challapali,  K.;  Brodsky, T. ; Yun-Ting Lin; Yong Yan; Chen,
R.Y.
  Author Affiliation: Philips Res., Briarcliff Manor, NY, USA
  Journal: IEEE Transactions on Circuits and Systems for Video Technology
  vol.14, no.6    p.813-24
  Publisher: IEEE,
  Publication Date: June 2004  Country of Publication: USA
  CODEN: ITCTEM  ISSN: 1051-8215
  SICI: 1051-8215(200406)14:6L.813:RTOS;1-R
  Material Identity Number: 0647-2004-008
  U.S. Copyright Clearance Center Code: 1051-8215/04/$20.00
  DOI: 10.1109/TCSVT.2004.828337
  Language: English
  Subfile: B C
  Copyright 2004, IEE

  Title:  Real-time  object  segmentation and coding for selective-quality
 video  communications
  Author(s):  Challapali,  K.;  Brodsky, T. ; Yun-Ting Lin; Yong Yan; Chen,
R.Y.
  Abstract:  The MPEG-4 standard enables the representation of  video  as a
collection  of   objects  .  This  paper describes an automatic system that
exploits such a representation. Our system consists of two parts: real-time
content  extraction  algorithms and a real-time multi- object  rate control
method.  We  present  two  approaches  to  content  extraction:  foreground
segmentation based on two...

... setup,  we improve a disparity estimation algorithm to obtain crisp and
smooth boundaries of foreground  objects ; 2) for a single camera scenario,
we propose a novel algorithm for face detection and...

... constant-quality  variable  bitrate  (CQ-VBR)  control  algorithm  that
guarantees  the  quality  specification for each  object  obtained from the
two  content  extraction  methods.  Both  segmentation  algorithms  run  in
real-time on...
```

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

... indoor environments. The CQ-VBR control algorithm is a useful tool for the evaluation of object -based coding. For low-bit-rate applications, we can achieve significant reduction in the overall bitrate, while maintaining the same visual quality of the foreground/face object as compared to conventional frame-based coding. Based on tests conducted on several sequences of...

... be up to 48%. The satisfactory foreground segmentation (results presented) permits porting a live foreground object into arbitrary scenes to create composite video .
...Descriptors: object detection...

... video coding
Identifiers: real-time object segmentation...

... object coding...

...selective-quality video communication...

... object -based coding...

... video data segmentation

18/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC

07744970 INSPEC Abstract Number: B2000-12-6135-128, C2000-12-5260B-167
Title: Detecting independent motion: the statistics of temporal continuity
Author(s): Pless, R.; Brodsky, T. ; Aloimonos, Y.
Author Affiliation: Center for Autom. Res., Maryland Univ., College Park, MD, USA
Journal: IEEE Transactions on Pattern Analysis and Machine Intelligence vol.22, no.8 p.768-73
Publisher: IEEE Comput. Soc,
Publication Date: Aug. 2000 Country of Publication: USA
CODEN: ITPIDJ ISSN: 0162-8828
SICI: 0162-8828(200008)22:8L.768:DIMS;1-H
Material Identity Number: I317-2000-009
U.S. Copyright Clearance Center Code: 0162-8828/2000/$10.00
Language: English
Subfile: B C

Author(s): Pless, R.; Brodsky, T. ; Aloimonos, Y.
...Abstract: a problem central in aerial visual surveillance applications; detection and tracking of small, independently moving objects in long and noisy video sequences. We directly use spatiotemporal image intensity gradient measurements to compute an exact model of...

... temporal integration method maintains confidence measures over long subsequences without computing the optic flow, requiring object models, or using a Kalman filter. The mosaic acts as a stable feature frame, allowing precise localization of the independently moving objects . We present a statistical analysis of the effects of image noise on the constraint violation...
...Descriptors: object detection
...Identifiers: object detection...

... object tracking...

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

...long noisy video sequences

? 18/3,K/3 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC
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07534461 INSPEC Abstract Number: B2000-04-6135-462, C2000-04-5260D-199
Title: New eyes for building models from video
Author(s): Fermuller, C.; Aloimonos, Y.; Brodsky, T.
Author Affiliation: Center for Autom. Res., Maryland Univ., College Park, MD, USA
Journal: Computational Geometry: Theory and Applications vol.15, no.1-3 p.3-23
Publisher: Elsevier,
Publication Date: Feb. 2000 Country of Publication: Netherlands
CODEN: CGOME6 ISSN: 0925-7721
SICI: 0925-7721(200002)15:1/3L.3:EBMF;1-9
Material Identity Number: O852-2000-003
U.S. Copyright Clearance Center Code: 0925-7721/2000/$20.00
Language: English
Subfile: B C
Copyright 2000, IEE

Title: New eyes for building models from video
Author(s): Fermuller, C.; Aloimonos, Y.; Brodsky, T.
Abstract: Models of real-world objects and actions for use in graphics, virtual and augmented reality and related fields can only be obtained through the use of visual data and particularly video . The paper examines the question of recovering shape models from video information. Given a video of an object or a scene captured by a moving camera, a prerequisite for model building is to...

...a camera-type eye (an eye with restricted field of view such as a common video camera) as regards the competence of 3D motion estimation. This result is derived from a...

... leading to new camera technology. Such new eyes are constructed by putting together multiple existing video cameras in specific ways, thus obtaining eyes from eyes. For a new eye of this kind we describe an implementation for deriving models of scenes from video data, while avoiding the correspondence problem in the video sequence.
...Descriptors: video cameras...

... video signal processing
Identifiers: real-world object models...

... video information...

... video cameras...
... video sequence

? 18/3,K/4 (Item 4 from file: 2)
DIALOG(R)File 2:INSPEC
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07338765 INSPEC Abstract Number: B1999-10-6135-190, C1999-10-5260B-261
Title: Independent motion: the importance of history
Author(s): Pless, R.; Brodsky, T. ; Aloimonos, Y.
Author Affiliation: Center for Autom. Res., Maryland Univ., College Park, MD, USA
Conference Title: Proceedings. 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (Cat. No PR00149) Part Vol. 2

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

p.92-7 Vol. 2
Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA
Publication Date: 1999 Country of Publication: USA 2 vol. (xxiii+637+663) pp.
ISBN: 0 7695 0149 4 Material Identity Number: XX-1999-02114
U.S. Copyright Clearance Center Code: 0 7695 0149 4/99/$10.00
Conference Title: Proceedings. 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition
Conference Sponsor: IEEE
Conference Date: 23-25 June 1999 Conference Location: Fort Collins, CO, USA
Language: English
Subfile: B C
Copyright 1999, IEE
Author(s): Pless, R.; Brodsky, T. ; Aloimonos, Y.
...Abstract: a problem central in aerial visual surveillance applications-detection and tracking of small, independently moving objects in long and noisy video sequences. We directly use spatiotemporal image intensity gradient measurements to compute an exact model of...

... temporal integration method maintains confidence measures over long subsequences without computing the optic flow, requiring object models, or using a Kalman filler. The mosaic acts as a stable feature frame, allowing precise localization of the independently moving objects . We present a statistical analysis of the effects of image noise on the constraint violation...
...Identifiers: video sequences

? 18/3,K/5 (Item 5 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

07015922 INSPEC Abstract Number: C9810-5260B-202
Title: Self-calibration from image derivatives
Author(s): Brodsky, T. ; Fermuller, C.; Aloimonos, Y.
Author Affiliation: Comput. Vision Lab., Maryland Univ., College Park, MD, USA
Conference Title: Sixth International Conference on Computer Vision (IEEE Cat. No.98CH36271) p.83-9
Publisher: Narosa Publishing House, New Delhi, India
Publication Date: 1998 Country of Publication: India 1164 pp.
ISBN: 81 7319 221 9 Material Identity Number: XX97-03061
Conference Title: Proceedings of IEEE 6th International Conference on Computer Vision
Conference Date: 4-7 Jan. 1998 Conference Location: Bombay, India
Language: English
Subfile: C
Copyright 1998, IEE

Author(s): Brodsky, T. ; Fermuller, C.; Aloimonos, Y.
...Abstract: parameter estimation, iterative in the calibration parameters only. The technique proposed does not require calibration objects in the scene or special camera motions and it also avoids the computation of exact...

... while they perform other tasks, or as a tool for analyzing image sequences in large video databases.
...Identifiers: large video databases

? 18/3,K/6 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
(c) 2007 ProQuest Info&Learning. All rts. reserv.

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

01699612 ORDER NO: AAD99-26733
THE VIDEO YARDSTICK (STRUCTURE FROM MOTION, THREE-DIMENSIONAL)
Author: BRODSKY, TOMAS
Degree: PH.D.
Year: 1999
Corporate Source/Institution: UNIVERSITY OF MARYLAND COLLEGE PARK (0117)
Source: VOLUME 60/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 1697. 139 PAGES

THE VIDEO YARDSTICK (STRUCTURE FROM MOTION, THREE-DIMENSIONAL)
Author: BRODSKY, TOMAS

Video , that is a sequence of images captured by a camera which, in general, is moving...

...the problem of how, starting from simple measurements of spatial and temporal derivatives of the video images, geometric information about the video content can be recovered. In particular, three major results are reported. First, it is shown how three dimensional motion is encoded in the video . Second, the constraints relating the shape of the visible scene surfaces to image measurements are developed, and third the relationship among the calibration parameters of the video camera and video measurements is obtained. The coupling of these geometric results to statistics and computation gave rise to a large software system, called the Video Yardstick. This system receives as input any video sequence of a static scene and produces as output a geometric description of the objects depicted in the video . The Video Yardstick can potentially perform any geometric measurement in video data and it has a large number of applications to Virtual Reality, Video Editing, Graphics, Robotics and other technological fields dealing with video information.

18/3,K/7 (Item 1 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily

07932107 SUPPLIER NUMBER: 846550351
Hilton the Huckster
Cohen, Richard
Washington Post, p A.17
May 31, 2005
ISSN: 0190-8286 NEWSPAPER CODE: TWP
DOCUMENT TYPE: Commentary; Newspaper article
LANGUAGE: English RECORD TYPE: ABSTRACT

Cohen, Richard

ABSTRACT: Once, I thought Hilton herself had been exploited. This was after the famous video of her having sex with her boyfriend hit the Internet. Before then she was a...

...could say that there is nothing new about Paris Hilton -- she's just the latest person who's famous for being famous. Not so. She is really the first crossover porn...

...DESCRIPTORS: Video recordings

18/3,K/8 (Item 2 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily

05753609

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

Presumed Guilty--And Tasteless
Cohen, Richard
Washington Post, Sec A, p 29, col 5
Oct 21, 1999
ISSN: 0190-8286 NEWSPAPER CODE: WP
DOCUMENT TYPE: Commentary; Newspaper
LANGUAGE: English RECORD TYPE: ABSTRACT
LENGTH: Medium (6-18 col inches)

Cohen, Richard

...ABSTRACT: she seemed jarringly sexualized. It appeared that they had turned their child into a sex object , and when America saw the video many people concluded that there was something fundamentally wrong with that family. What sort of...

18/3,K/9 (Item 3 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily

05457021
A Solitaire Addict
Cohen, Richard
Washington Post, Sec A, p 21, col 2
Mar 16, 1999
ISSN: 0190-8286 NEWSPAPER CODE: WP
DOCUMENT TYPE: Commentary; Newspaper
LANGUAGE: English RECORD TYPE: ABSTRACT
LENGTH: Medium (6-18 col inches)

Cohen, Richard

ABSTRACT: We were sitting around the other night, eight of us, when somehow the subject of computer games came up. The college president confessed to playing them a lot. So...

DESCRIPTORS: Computer & video games...

18/3,K/10 (Item 4 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily

04925901
Wired Eyes; How tapes and technology freeze our times -- and sometimes the blood itself
Cohen, Richard
Washington Post, Sec WMAG, p 20, col 1
Feb 22, 1998
ISSN: 0190-8286 NEWSPAPER CODE: WP
DOCUMENT TYPE: Feature; Newspaper
LANGUAGE: English RECORD TYPE: ABSTRACT
LENGTH: Long (18+ col inches)

Cohen, Richard

...ABSTRACT: from behind. Everyone has a characteristic walk, but up until the recent ubiquity of the video camera, only movie actors knew theirs. Even now, most of us have never seen ourselves...

...suit. What happens is closer to mortification, a total loss of control of who the person has been telling the world he is. There, on the tape and under circumstances that...

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

... of LVQ codebook vectors to all pixels of image frame. Finally, for adapting the human object class movement in succeeding frames, LVQ codebook vectors are updated periodically by feeding back the result of the last segmentation into the training step. This paper also presents proposed segmentation algorithm performance to some MPEG-4 video test.
...Identifiers: video sequence frame...

...segmentation algorithm ; ...

... video test

28/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC

08568726 INSPEC Abstract Number: B2003-04-6135E-105, C2003-04-5260B-383
Title: An LVQ-based technique for human motion segmentation
Author(s): Hariadi, M.; Harada, A.; Aoki, T.; Higuchi, T.
Author Affiliation: Graduate Sch. of Inf. Sci., Tohoku Univ., Japan
Conference Title: Proceedings. APCCAS. Asia-Pacific Conference on Circuits and Systems (Cat No.02EX636) Part vol.2 p.171-6 vol.2
Publisher: IEEE, Piscataway, NJ, USA
Publication Date: 2002 Country of Publication: USA 2 vol.(lvi+584+568) pp.
ISBN: 0 7803 7690 0 Material Identity Number: XX-2002-03561
U.S. Copyright Clearance Center Code: 0-7803-7690-0/02/$17.00
Conference Title: Proceedings. APCCAS. Asia-Pacific Conference on Circuits and Systems
Conference Date: 28-31 Oct. 2002 Conference Location: Bali, Indonesia
Language: English
Subfile: B C

Abstract: This paper describes a novel approach for human motion segmentation from digital color video sequences. The problem is to separate the human image as target object from its background image in a color video sequence. In our approach, every pixel of a video frame is considered to be a 5-dimensional vector consisting of x - y coordinate components plus 3 color components in HSV color space. The basic idea is to use learning vector quantization (LVQ) defined in 5-dimensional vector space to distinguish the target human object from its background image. We assume that the target human object and its background are classified by hand at the first frame. The initial classification data...

... vectors define class regions in the 5-dimensional vector space. For tracking the target human object class in succeeding frames, LVQ codebook vectors are updated periodically by feeding back the result...

... the training step. This paper also presents performance evaluation of the proposed LVQ-based segmentation algorithm .
...Descriptors: object detection...

... object recognition...

... video signal processing
...Identifiers: digital color video sequence...

...target object ; ...
... video pixel 5D vector...

... video frame...

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Language: English

Title: Optimizing image normalization algorithm for shape distortions
...Abstract: a shape can be normalized before feature extraction. Due to the drawbacks of the normalization algorithm , shape compacting proposed by J. G Leu, which normalizes rotation and skewing distortions incompletely, an optimized shape normalization algorithm is proposed in this paper. The basic idea is first to get the compact shape...

...and scaling distortions by the shape compacting. Then, on determining the principal axis of the object shape, we get the angle included between the x - axis and the principal axis, according to which the shape is rotated. Finally, the reversed object shape can be normalized by the signs of the original image's central moments. Therefore...

...the above four distortions. The results of our experiments demonstrate that the optimal shape normalization algorithm outperforms the existing shape compacting. 8 Refs.
Descriptors: *Algorithms ; Feature extraction; Image analysis ; Image recognition; Optimization

28/3,K/8 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

10823779 E.I. No: EIP06049660264
Title: Sub pixel accuracy of fiducial marks using least square estimator
Author: Coumou, David J.
Corporate Source: D3Engineering, LLC, Rochester, NY 14604, United States
Conference Title: Signal and Data Processing of Small Targets 2005
Conference Location: San Diego, CA, United States Conference Date: 20050802-20050804
E.I. Conference No.: 66384
Source: Proceedings of SPIE - The International Society for Optical Engineering Signal and Data Processing of Small Targets 2005 v 5913 2005.
Publication Year: 2005
CODEN: PSISDG ISSN: 0277-786X
Language: English

Abstract: An image processing architecture has been developed that executes a concatenated algorithm to determine the presence of multiple fiducial marks on an image plane, locates the estimated...

...in the image, calculates subpixel accuracy of the fiducial mark, and translates the x and y coordinates of the fiducial marks to absolute distance and phase relationships between fiducial marks. The fiducial mark is an object with an outer circular boundary and two inner lines that intersect to provide an object with symmetry. This symmetry is crucial for the requirements of rotation and scaling invariant, specifically for the process of identifying the presence of the fiducial mark in the image plane. Video is used for imagery of the fiducial marks. 15 Refs.

28/3,K/9 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

09350830 E.I. No: EIP03157432247
Title: Model-based real-time head tracking
Author: Strom, Jacob
Corporate Source: Multimedia Technologies Department Ericsson Research, 164 86 Stockholm, Sweden
Source: Eurasip Journal on Applied Signal Processing v 2002 n 10 October

10029730 Method for Efficiently Storing the Trajectory of Tracked Objects in Video

2002. p 1039-1052
Publication Year: 2002
CODEN: EJASCT ISSN: 1110-8657
Language: English

...Abstract: an analysis by synthesis approach. The work is based on the Structure from Motion (SfM) algorithm from Azarbayejani and Pentland (1995). We will analyze the convergence properties of the SfM algorithm for planar objects , and extend it to handle new points. The extended algorithm is then used for head tracking. The system tracks feature points in the image using...

...rotation of up to 90 without losing track. The covariance of the x- and the y - coordinates are estimated and forwarded to the Kaiman filter, making the tracker robust to occlusion. The system automatically detects tracking failure and reinitializes the algorithm using information gathered in the original initialization process. 29 Refs.
Descriptors: *Image analysis ; Pattern recognition; Textures; Kalman filtering; Computer vision; Algorithms
Identifiers: Planar objects

28/3,K/10 (Item 5 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

09061412 E.I. No: EIP02226964117
Title: Surface reconstruction using neural network mapping of range-sensor images to object space
Author: Knopf, George K.; Kofman, Jonathan
Corporate Source: The University of Western Ontario Dept. of Mechanical Engineering Faculty of Engineering, London, Ont. N6A 5B9, Canada
Source: Journal of Electronic Imaging v 11 n 2 April 2002. p 187-194
Publication Year: 2002
CODEN: JEIME5 ISSN: 1017-9909
Language: English

Title: Surface reconstruction using neural network mapping of range-sensor images to object space
...Abstract: procedures, based on the system optics and geometry, to relate the captured image data to object coordinates. A Bernstein basis function (BBF) neural network that directly maps measured image coordinates to object coordinates is described in this paper. The proposed technique eliminates the need to explicitly determine the sensor's optical and geometric parameters by creating a functional map between image-to- object coordinates. The training and test data used to determine the map are obtained by capturing...
...projected light line and horizontal markings on a calibration bar, which is stepped through the object space. The surface coordinates corresponding to the illuminated pixels in the image are determined from ...

...effectiveness and accuracy of this approach. The root mean squared errors for the x and y coordinates in the calibrated plane, 0.25 and 0.15 mm, respectively, are quite low and...
Descriptors: *Image reconstruction; Radial basis function networks; Imaging techniques; Image sensors; Data acquisition; Object recognition; Image analysis ; Learning algorithms ; Mathematical models; Polynomials; Vectors; Least squares approximations; Three dimensional
Identifiers: Surface reconstruction; Object space; Structured light triangulation technique; Bernstein basis function neural network; Functional map; Image to object coordinates; Root mean square error; Image plane

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28/3,K/11 (Item 6 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06367656 E.I. Monthly No: EIM9201-002656
Title: Design of eye movement monitoring system for practical environment.
Author: Nakamura, Hiroyuki; Kobayashi, Hitoshi; Taya, Katsuo; Ishigami, Shigenobu
Corporate Source: Saitama Inst. of Technology, Osato-gun, Saitama, Japan
Conference Title: Large-Screen-Projection, Avionic, and Helmet-Mounted Displays
Conference Location: San Jose, CA, USA Conference Date: 19910226
E.I. Conference No.: 15292
Source: Proceedings of SPIE - The International Society for Optical Engineering v 1456. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 226-238
Publication Year: 1991
CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-0555-8
Language: English

...Abstract: design and implementation of real-time eye movement data acquisition and monitoring system. The main object of the system design is to provide a more practical environment, which allows less restriction on subjects ' head displacement and eliminates tedious optical mirror adjustments. An eye-mark recorder is used as the input device to measure the x - y coordinates of eye movements relative to a subject 's head. In addition, the continuous front view image is taken by a video camera set on the subject 's head. A CRT display is placed in front of the subject . The subject is shown visual objects displayed on the screen and asked to avoid deliberate head motion. Eight infrared LED reference points invisible to the subject are fixed on the screen. These points are used to calibrate the head displacement. First, a set of nonlinear photogrammetric equations including trigonometric functions are developed to relate the reference points to the camera displacements. Second, the equations are linearized for faster calculations. The errors caused by the approximation are evaluated. It is concluded that the linear equations give satisfactory results considering the physical configurations. A set of typical experiment results are shown...

28/3,K/12 (Item 7 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06094573 E.I. Monthly No: EIM9107-034112
Title: Real-time processor for 3-D information extraction from image sequences by a moving area sensor.
Author: Hattori, Tetsuo; Nakada, Makoto; Kubo, Katsumi
Corporate Source: Kagawa Univ, Takamatsu, Jpn
Conference Title: Applications of Digital Image Processing XIII
Conference Location: San Diego, CA, USA Conference Date: 19900710
E.I. Conference No.: 14610
Source: Proceedings of SPIE - The International Society for Optical Engineering v 1349. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 301-312
Publication Year: 1990
CODEN: PSISDG ISSN: 0277-786X
Language: English

...Abstract: or abnormal phenomena such as steam leakage from valves. The processor detects the distance between objects in the input image and the area sensor, deciding corresponding points (pixels) between the first...

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...which plays an important role is two kinds of boards: mapping boards which can transform X - coordinate (horizontal direction) and Y - coordinate (vertical direction) for each horizontal row of images, and a regional labelling board which extracts...

...through image sequence. This paper also shows the whole processing flow of the distance detection algorithm . Since the processor can continuously process images (512 multiplied by 512 multiplied by 8 left bracket pixels*bits per frame right bracket) at the NTSC video rate, it takes about 0.7 left bracket sec right bracket to measure the 3...
...Descriptors: Image Analysis ; SIGNAL PROCESSING

^ 28/3,K/13 (Item 8 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06077360 E.I. Monthly No: EIM9106-025318
Title: Tracking of multiple points using color video image analyzer.
Author: Nennerfelt, Leif
Corporate Source: Columbus Instruments Corp, Columbus, OH, USA
Conference Title: Mini-Symposium on Image-Based Motion Measurement in collaboration with First World Congress of Biomechanics
Conference Location: San Diego, CA, USA Conference Date: 19900831
E.I. Conference No.: 13917
Source: Proceedings of SPIE - The International Society for Optical Engineering v 1356. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 104-109
Publication Year: 1990
CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-0417-9
Language: English

Title: Tracking of multiple points using color video image analyzer.
...Abstract: up to six points at 60 frames per second using colored markers placed on the subject . The system can be used for applications such as gait analysis, studying facial movements, or...

...The Videomex-X is comprised of a high speed color image analyzer, an RBG color video camera, an IBM AT compatible computer and motion analysis software. The markers are made from...

...X performs real-time analysis so that the researcher can get immediate feedback on the subject 's performance. High speed operation is possible because the system uses distributed processing. The image analyzer is a hardwired parallel image processor which identifies the markers within the video picture and computes their x-y locations. The image analyzer sends the x - y coordinates to the AT computer which performs additional analysis and presents the result. The x - y coordinate data acquired during the experiment may be streamed to the computer's hard disk. This...

...X tracked in two dimensions. However, a 3-D system has recently been completed. The algorithm used by the system to derive performance results from the x - y coordinates is contained in a separate ASCII file. These files can be modified by the operator...
...Descriptors: Image Analysis

28/3,K/14 (Item 9 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06001259 E.I. Monthly No: EIM9012-051168
Title: Calibration of CCD-cameras for machine vision and robotics.

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Author: Beyer, Horst A.
Corporate Source: Swiss Federal Inst of Technology (ETH), Zurich, Switz
Conference Title: Automated Inspection and High-Speed Vision Architectures III
Conference Location: Philadelphia, PA, USA Conference Date: 19891106
E.I. Conference No.: 13670
Source: Proceedings of SPIE - The International Society for Optical Engineering v 1197. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 88-98
Publication Year: 1989
CODEN: PSISDG ISSN: 0277-786X
Language: English

...Abstract: the extraction of three-dimensional information from images and camera calibration is presented. Standard photogrammetric algorithms for the least squares estimation of relevant parameters are outlined together with terms and principal...

...Photogrammetry of ETH-Zurich is described. Two calibration tests with three-dimensional testfields and independently determined reference coordinates for quality assessment are presented. In a laboratory calibration with off the shelf equipment an...

...a ping-pong playing high-speed robot led to an improvement of the accuracy of object coordinates by a factor of over 8. The vision system is tracking table-tennis balls...
...Descriptors: Image Analysis ; ROBOTICS
Identifiers: CCD CAMERAS CALIBRATION; 3D IMAGES; PING-PONG PLAYING ROBOT; PHOTOGRAMMETRIC ALGORITHMS ; COLLINEARITY EQUATIONS

28/3,K/15 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

12404866 Genuine Article#: 762AV No. References: 32
Title: Mosaics of video sequences with moving objects
Author(s): Hsu CT (REPRINT) ; Tsan YC
Corporate Source: Natl Tsing Hua Univ,Dept Comp Sci,Hsinchu 300//Taiwan/ (REPRINT); Natl Tsing Hua Univ,Dept Comp Sci,Hsinchu 300//Taiwan/
Journal: SIGNAL PROCESSING-IMAGE COMMUNICATION, 2004, V19, N1 (JAN), P81-98
ISSN: 0923-5965 Publication date: 20040100
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Mosaics of video sequences with moving objects
Abstract: This paper aims to construct mosaics from video sequences with moving objects . We propose to explicitly eliminate moving objects from the background. When dealing with only the retained background, we can simplify the following global motion estimation and exclude moving objects from the video mosaic.

The proposed method consists of three stages. First, we apply a hierarchical block-based...

...at the first stage and warp all the retained background regions with respect to a reference coordinate system and integrate them into a video mosaic. Many experimental results are shown to demonstrate the effectiveness of the proposed work. (C...
...Identifiers--MOTION ESTIMATION; IMAGE REGISTRATION; SEARCH ALGORITHM ; REPRESENTATIONS; SEGMENTATION

28/3,K/16 (Item 2 from file: 34)

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DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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10809488 Genuine Article#: 571JV No. References: 13
Title: Knee moment profiles during walking: errors due to soft tissue movement of the shank and the influence of the reference coordinate system
Author(s): Manal K (REPRINT) ; McClay I; Richards J; Galinat B; Stanhope S
Corporate Source: Univ Delaware,Spencer Labs 126, Biomed Engn Res Ctr,Newark//DE/19716 (REPRINT); Univ Delaware,Spencer Labs 126, Biomed Engn Res Ctr,Newark//DE/19716; Joyner Sports Med Inst,Lexington//KY/40517; Univ Delaware,Newark//DE/19716; Delaware Orthopaed Ctr,Newark//DE/19808; NIH,Biomech Lab,Bethesda//MD/20892
Journal: GAIT & POSTURE, 2002, V15, N1 (FEB), P10-17
ISSN: 0966-6362 Publication date: 20020200
Publisher: ELSEVIER SCI IRELAND LTD, CUSTOMER RELATIONS MANAGER, BAY 15, SHANNON INDUSTRIAL ESTATE CO, CLARE, IRELAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Title: walking: errors due to soft tissue movement of the shank and the influence of the reference coordinate system
...Abstract: comparing knee moments determined from bone-anchored and surface mounted tracking targets. Six healthy adult subjects participated in this study. The largest difference (3 N m) occurred about the AP axis...

...was also examined. The peak extension moment was significantly greater when expressed about an anatomical axis following the line of the malleoli than when the moment was reported about an axis parallel...

28/3,K/17 (Item 3 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2007 The Thomson Corp. All rts. reserv.

04906481 Genuine Article#: UQ930 No. References: 58
Title: METHODS IN QUANTITATIVE IMAGE - ANALYSIS
Author(s): OBERHOLZER M; OSTREICHER M; CHRISTEN H; BRUHLMANN M
Corporate Source: UNIV BASEL,DEPT PATHOL,SCHONBEINSTR 40/CH-4003 BASEL//SWITZERLAND/; UNIV BASEL,CTR COMP/CH-4003 BASEL//SWITZERLAND/; UNIV BASEL,INST INFORMAT & CALCULAT/CH-4003 BASEL//SWITZERLAND/
Journal: HISTOCHEMISTRY AND CELL BIOLOGY, 1996, V105, N5 (MAY), P333-355
ISSN: 0301-5564
Language: ENGLISH Document Type: REVIEW (Abstract Available)

Title: METHODS IN QUANTITATIVE IMAGE - ANALYSIS
Abstract: The main steps of image analysis are image capturing, image storage (compression), correcting imaging defects (e.g. non-uniform illumination, electronic noise, glare effect), image enhancement, segmentation of objects in the image and image measurements. Digitisation is made by a camera. The most modern...

...is mainly manifested in the background of the image. For an optimal discrimination between different objects or features in an image, uniformity of illumination in the whole image is required. These...
...defined. Very important prerequisites for extracting quantitative information from digitised images are clearly identifiable segmented objects and knowledge about instrumental and technical influences on the results (glare effect and thickness of histological slides). Segmentation of objects is traditionally based on threshold grey values. The grey value histogram of the original or...

...dilation, and modifications of these operations. There are many methods allowing direct quantitation of segmented objects within grey scale

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images. They use different sets of parameters: planimetric, histogram-derived, densitometric, co...

...immunocytochemistry, parameters of silver-stained nucleolar organiser regions (AgNORs) and parameters of cellular sociology. Digital image analysis requires a distinction between two phases for the evaluation procedure: generation of fundamental data (x- and y - coordinates and grey values of the pixels, immediately after object segmentation) and calculation of parameters from these data. The data generated during segementation must remain...

...from them. With such a data organisation it is no longer necessary to repeat the Object segmentation if new algorithms should be applied on objects which earlier were segmented. In dealing with methods or instruments for digital image analysis , it is always essential to know precisely the characteristics of both of them.
...Research Fronts: 002 (COMPUTER-ASSISTED CHROMATIN TEXTURE CHARACTERIZATION OF FEULGEN-STAINED NUCLEI; ADULT ASTROCYTIC TUMORS; DIGITAL CELL IMAGE - ANALYSIS ; MALIGNANT GLIOMA)
94-5372 001 (FRACTAL GEOMETRY; 2-DIMENSIONAL ALUMINUM CORROSION FRONTS; ANGULAR POWER SPECTRA...

28/3,K/18 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

02076436 ORDER NO: AADAA-I0807828
Three-dimensional modeling with stereo vision in underground mines
Author: Whitehorn, Mark A.
Degree: Ph.D.
Year: 2005
Corporate Source/Institution: Colorado School of Mines (0052)
Source: VOLUME 66/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 1643.

...feasibility of real-time implementation and safety enhancement through collision avoidance and detection of unmodeled objects .
We describe the novel aspects of our approach. Our development code uses correlation based stereo techniques for structure and motion estimation. Portions of the algorithms are implemented in native code using C and assembly language to estimate the speed of optimized algorithms on a Pentium III processor with MMX (multimedia extensions) and SIMD (single-instruction multiple-data...

...prototype system is demonstrated to form 3D point clouds from each stereo pair in a video sequence, register these points to a reference coordinate frame, integrate all registered points into a volumetric model and output the 6 DOF (degrees of freedom) vehicle pose at each instant in the video sequence. Estimates of the depth variance of individual and integrated measurements are also computed. We...

28/3,K/19 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

17319490 PASCAL No.: 05-0394434
License plate tracking from monocular camera view by condensation algorithm
Advances in intelligent computing : Hefei, 23-26 August 2005
YALCIN Ilhan Kubilay; GOEKMEN Muhittin
HUANG DE-SHUNAG, ed; ZHANG XIAO-PING, ed; HUANG GUANG-BIN, ed
TUBITAK MRC Information Technologies Institute Kocaeli, Turkey; ITU

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~~Non-Patent Literature Full-Text

File 9:Business & Industry(R) Jul/1994-2007/Oct 25
(c) 2007 The Gale Group
File 15:ABI/Inform(R) 1971-2007/Oct 30
(c) 2007 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2007/Oct 29
(c) 2007 The Gale Group
File 20:Dialog Global Reporter 1997-2007/Oct 31
(c) 2007 Dialog
File 47:Gale Group Magazine DB(TM) 1959-2007/Oct 16
(c) 2007 The Gale group
File 75:TGG Management Contents(R) 86-2007/Oct W3
(c) 2007 The Gale Group
File 80:TGG Aerospace/Def.Mkts(R) 1982-2007/Oct 23
(c) 2007 The Gale Group
File 88:Gale Group Business A.R.T.S. 1976-2007/Oct 23
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File 98:General Sci Abs 1984-2007/Sep
(c) 2007 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media
File 141:Readers Guide 1983-2007/Aug
(c) 2007 The HW Wilson Co
File 148:Gale Group Trade & Industry DB 1976-2007/Oct 24
(c)2007 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2007/Oct 25
(c) 2007 The Gale Group
File 264:DIALOG Defense Newsletters 1989-2007/Sep 21
(c) 2007 Dialog
File 484:Periodical Abs Plustext 1986-2007/Oct W3
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File 553:Wilson Bus. Abs. 1982-2007/Oct
(c) 2007 The HW Wilson Co
File 570:Gale Group MARS(R) 1984-2007/Oct 24
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File 608:KR/T Bus.News. 1992-2007/Oct 31
(c)2007 Knight Ridder/Tribune Bus News
File 620:EIU:Viewswire 2007/Sep 22
(c) 2007 Economist Intelligence Unit
File 613:PR Newswire 1999-2007/Oct 31
(c) 2007 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2007/Oct 25
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File 634:San Jose Mercury Jun 1985-2007/Oct 25
(c) 2007 San Jose Mercury News
File 635:Business Dateline(R) 1985-2007/Oct 30
(c) 2007 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2007/Oct 26
(c) 2007 The Gale Group
File 647:CMP Computer Fulltext 1988-2007/Sep W5
(c) 2007 CMP Media, LLC
File 696:DIALOG Telecom. Newsletters 1995-2007/Oct 29
(c) 2007 Dialog
File 674:Computer News Fulltext 1989-2006/Sep W1
(c) 2006 IDG Communications
File 810:Business Wire 1986-1999/Feb 28

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Set	Items	Description
S1	5691891	VIDEO? ? OR IMAGE()ANALYSIS
S2	13236213	OBJECT? ? OR SUBJECT? ? OR PERSON? ?
S3	857928	COORDINATE OR COORDINATES OR AXIS? ?
S4	32367	(REFERENCE OR FIRST OR 1ST OR INITIAL OR ORIGINAL OR BASELINE OR X()Y OR X OR Y)(1W)S3 OR XREF?
S5	1027	S4(5N)(DETERMIN? OR IDENTIF? OR ASSIGN??? OR DESIGNAT??? OR SELECT???)
S6	72	TRAJECTORY(1N)(LIST? ? OR FILE? ? OR REGISTR? OR SCHEDULE?)
S7	1	S6(5N)(STOR??? OR RECORD??? OR SAVE? OR ADD OR ADDED OR ADDING)
S8	118	S4(4N)(REPLAC? OR UPDAT? OR EXCHANG?)
S9	13212	(CURRENT OR PRESENT OR NEW OR SECOND OR 2ND OR SUBSEQUENT OR SUCCESSIVE OR FOLLOWING OR UPDATED)(1N)S3 OR XNEW?
S10	226680	(PREDETERMIN? OR GIVEN OR SET OR PRESET OR PRESELECT? OR SPECIFIC OR SPECIFIED)(2N)(DISTANCE OR THRESHOLD OR AMOUNT OR VALUE)
S11	6537	S10(3N)(GREATER OR LARGER OR BIGGER OR MORE OR EQUAL)
S12	1951664	ABSOLUTE()VALUE? ? OR ALGORITHM? ? OR EQUATION? ? OR FORMULA? ?
S13	9777	AU=(COHEN, R? OR COHEN R? OR BRODSKY, T? OR BRODSKY T?)
S14	269	S13 AND S1
S15	3	S14 AND S3
S16	2	RD (unique items)
S17	55	S1(6S)S5
S18	0	S17(6S)S6
S19	1	S17(6S)S9
S20	0	S17 AND S11
S21	24	S17 AND S12
S22	17	RD (unique items)
S23	106128	S2(3N)(MOVE? OR MOVING OR MOTION OR WALK?)
S24	14957	S3(5N)(STOR??? OR RECORD??? OR SAVE? OR ADD OR ADDED OR ADDING)
S25	105	S23(4S)S24
S26	36	S25(4S)S1
S27	21	RD (unique items)

16/3,K/1 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

05168504 SUPPLIER NUMBER: 10794126 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Scenes from QuickTime applications show diverse uses for 'movies.'
Cohen, Raines
MacWEEK, v5, n21, p39(1)
June 4, 1991
ISSN: 0892-8118 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 611 LINE COUNT: 00051

Cohen, Raines
... the program to create movies. He said the time synchronization that QuickTime provides will help coordinate sound and multiple animations across different types of Macs.

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>LabView. Even scientific applications can use...

TRADE NAMES: QuickTime (Desktop video software...

16/3,K/2 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

01454979 SUPPLIER NUMBER: 11434247 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Vital to ship VoxelView/Mac for interactive 3-D visualization. (Vital Images Inc.) (product announcement)
Cohen, Raines
MacWEEK, v5, n36, p42(1)
Oct 22, 1991
DOCUMENT TYPE: product announcement ISSN: 0892-8118 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 364 LINE COUNT: 00029

Cohen, Raines
... voxels, or volume elements. Each voxel represents the original volume and retains its 3-D coordinates , as well as a measured or calculated value or property, such as density or color...

...DESCRIPTORS: Interactive Video ;

19/3,K/1 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)

02283370 Supplier Number: 44407644 (USE FORMAT 7 FOR FULLTEXT)
Don't touch, just measure Noncontact precise measurement system finds the right axis for many objects
Testing Technology, pN/A
Feb, 1994
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 816

... top of the vehicle and one near the bottom). Mechanics researchers developed a method for determining a reference axis using a reference target and digital video analysis at the top plane and laser triangulation sensors focused on the vehicle's surface...

...slowly rotates on the balancing machine, the reference target orbits the machine spin axis and video data are recorded. " Video information does not usually yield quantitative data," notes James, "but this technique does." Edge-detecting...

...vehicle is defined as passing through the best-fit circle's center. The top plane video data and the bottom plane laser triangulation data are linked with a common time measurement...

...and translation adjustments required to align the vehicle's reference axis with the machine spin axis . This new technique provides several improvements over conventional alignment methods. First, conventional methods with contact sensors can...

22/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)

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03901631 SUPPLIER NUMBER: 07206906 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The video connection. (computer animation capabilities on microcomputers)
Computer Graphics World, v12, n4, pS23(5)
April, 1989
ISSN: 0271-4159 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1574 LINE COUNT: 00125

... Supplied by companies like Lyon Lamb (Burbank, CA) and GESI/Diaquest (Berkeley, CA), the controller coordinates the recording process according to a sync signal that is supplied by a sync generator or, in...

...North's Inscriber, for instance, the alpha channel is used to do scripting over the video signal. And Steve Lomas notes that animators at Master Digital use the alpha channel to...

...equipment, and hours of time that go into creating even a five-second computer animated video , the cost to the client adds up. But the better video production houses specializing in computer animation are not hurting for business. Sheldon Liebman at Digital...
...the rage among corporate clients. Similarly, Spindler predicts that rotoscoping, or the enhacement of live video with computer-generated animation, will be in demand among corporate clients because they're now...

27/3,K/18 (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

01884848 SUPPLIER NUMBER: 02892091 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Low-cost drafting on personal computers.
Teschler, Leland
Machine Design, v55, p65(5)
Aug 25, 1983
ISSN: 0024-9114 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2024 LINE COUNT: 00158

... obtain fast response time by using a so-called integer data base, whereas other systems store feature coordinates as floating-point numbers. The integer data base incurs one potential drawback, however. Whereas systems...

27/3,K/19 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2007 ProQuest. All rts. reserv.

07458709 SUPPLIER NUMBER: 1232245961 (USE FORMAT 7 OR 9 FOR FULLTEXT)
A system for tracking gaze on handheld devices
Lukander, Kristian
Behavior Research Methods (BRMH), v38 n4, p660-666, p.7
Nov 2006
ISSN: 1554-351X JOURNAL CODE: BRMH
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 4234

TEXT:
... from Oyekoya (2004). Many of the current systems impose strict restrictions on the freedom of movement of the subject and the interface, typically resulting in nonrealistic use scenarios and studies of gaze and eye...

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...categories: head-mounted devices and remote devices. Head-mounted devices have the sensory element, typically video camera(s), attached to a helmet or a headband worn by the user, whereas remote...
...surface, typically a computer monitor. Head-mounted devices come in two varieties: Devices with scene video have a camera pointing forward, delivering roughly the same view of the world as the...

...sees. These devices report the point of gaze as an overlaid cursor on the scene video . This gives more freedom to the user, because the gaze is not recorded in relation to any fixed coordinate system, but this type of device also requires laborious, subjective evaluation of the test sessions...

...www.smarteye.se), and seeingMachines (www.seeingmachines.com.au)-offer equipment that allows for moderate subject movement by using model-based tracking of the subject and the subject's eyes, these systems ...

...natural environments. However, their system records eye movements as an overlaid pointer on a scene video , and therefore provides data only for subjective evaluation.
Small interfaces nave been described as the...

27/3,K/20 (Item 2 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2007 ProQuest. All rts. reserv.

06965801 SUPPLIER NUMBER: 926151601 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Discreet Smoke, No Mirrors
Peters, Oliver
Videography (VIDG), v30 n10, p58, 60, 62, 8, p.4
Oct 2005
ISSN: 0363-1001 JOURNAL CODE: VIDG
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1788

TEXT:
... of an IBM IntelliStation equipped with an Nvidia OpenGL display card and an SD/HD video I/O card manufactured by DVS. A minimum of one Autodesk Stone Fibre Channel drive...

...effects and so on.
The timeline consists of an unlimited number of tracks and layers. Video tracks are opaque-hiding the video on tracks below-and are used to compare versions of a cut. Layers have transparency...

...are used for vertical editing (compositing), as in other NLEs. Standard effects that can be added to dips include axis (X, Y, Z position and rotation), wipe, spark (third-party filters), color correction, Timewarp (speed...

...DVE effects are those created within a 3D compositing module, not the typical 2.5D video manipulation. A powerful part of all Autodesk effects is the integrated use of trackers. A multi-point tracker for locking objects to a move or stabilizing an image is computed very quickly., and these values can be added to...

27/3,K/21 (Item 3 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
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06673532 SUPPLIER NUMBER: 788905541 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Response of sagittal plane gait kinematics to weight-supported treadmill training and functional neuromuscular stimulation following stroke
Daly, Janis J; Roenigk, Kristen L; Butler, Kristen M; Gansen, Jennifer L; Et al
Journal of Rehabilitation Research & Development (PJHB), v41 n6A, p807-820, p.14
Nov/Dec 2004
ISSN: 0748-7711 JOURNAL CODE: PJHB
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 7720

TEXT:
... for each muscle was set first according to patient comfort and then according to the movement desired. For most subjects and most muscles, we used the maximum comfortable level of activation to approximate normal joint...

...were measured with the Vicon 370 (Oxford Metrics, UK), a computerized, three-dimensional (3-D) video data acquisition system. The system included seven charge-coupled device cameras strategically configured on a ...

...malleoli, and fifth metatarsals, as recommended with use of the Vicon 370 (20). As the subject walked , the 3-D position coordinates for all the markers were recorded at a sampling rate of 60 Hz.
The Vicon 370 VCM software then reconstructed the...